Table S35 - IPA EGA1, EGA2, and EGA3 upstream regulators targets in affected sub-group biological functions

		Upstream Regulators													
Function	Sub-Group	SOX11	CCND1	CXCR4	LDLR	SET	RRP1B	CDK4/6	SSRP1	HNRNPU	HNF4A	INSR	HSPA5	ROCK2	KITLG
Ubiquitination	M-1	CD86													
Phosphorylation of L-amino acid	M-1		MYLK												
Growth of dendrites	M-1	CAV1													
Phosphorylation of L-serine	M-1		MYLK												
Differentiation of vasculature	M-1	BMP4													
Accumulation of phosphoinositide	M-1		KIF20B												
Differentiation of carcinoma cell lines	M-1	EGR1													
Differentiation of mesenchymal cells	M-1	BMP4 CAV1 RUNX2													
Quantity of vesicles	M-1	CAV1 EGR1													
Maturation of cells	M-3		CPEB1												
Accumulation of phospholipid	M-1		KIF20B												
Differentiation of mesenchymal stem cells	M-1	BMP4 CAV1 RUNX2													
Differentiation of germ cell tumor cell lines	M-1	EGR1													
Recombination	M-1		DNMT1 HJURP UHRF1												
Development of neurons	M-3		RGS2												
Respiratory system development	M-1	BMP4 CAV1													
Cytostasis of prostate cancer cell lines	M-1	CAV1													
Permeability of vascular system	M-1		MYLK												
Migration of ovarian cancer cell lines	M-1		WWOX												
Breakage of double-stranded DNA	M-1		DNMT1												
Quantity of focal adhesions	M-1	CAV1													
Recombination of chromosomes	M-1		DNMT1												
Senescence of epithelial cell lines	M-1	BMP4													
Relaxation of muscle	M-1		MYLK												
Disruption of actin cytoskeleton	M-1	CAV1													
Quantity of pulmonary alveolus	M-1	RUNX2													
Anxiety	M-3		RGS2												
Response of fibroblast cell lines	M-1	BMPR1A													
Aggregation of melanosomes	M-1		MYRIP												
Quantity of alveolar epithelium	M-1	RUNX2													
Mitosis of smooth muscle cells	M-1	BMP4													
Metabolism by thymocytes	M-1	EGR1													
Quantity of tubulovesicular structures	M-1	CAV1													
Morphology of dendritic spines	M-1		CTNNA2												

Volume of bone	M-1	BMPR1A CAV1			
Morphology of right ventricle	M-1	CAV1			
Migration of neocortical neurons	M-1	BMP4 BMPR1A			
Mineralization of bone marrow stromal cells	M-1	RUNX2			
Morphology of chromosomes	M-1		DNMT1		
Conversion of choline-phospholipid	M-1		ENPP2		
Formation of occipital bone	M-1	RUNX2			
Fusion of insulin granule	M-1		MYRIP		
Gap junctional intercellular communication of neuronal progenitor cells	M-1	CAV1			
Volume of trabecular bone	M-1	BMPR1A			
Long term depression of collateral synapses	M-1	CAV1			
Arrest in cell cycle progression of sarcoma cell lines	M-1		CLSPN		
Abnormal morphology of chromosomes	M-1		DNMT1		
Maturation of oocytes	M-3		CPEB1		
Arrest in oogenesis	M-3		CPEB1		
Delay in G1/S phase transition of prostate cancer cell lines	M-3		NCOA3		
Arrest in cleavage of embryo	M-3		CPEB1		
Relaxation of mesenteric artery	M-3		RGS2		
Thickness of vascular smooth muscle cells	M-3		RGS2		
Relaxation of mesenteric resistance artery	M-3		RGS2		
Density of sinusoid	M-3		NCOA3		
Relaxation of artery	M-3		RGS2		
Senescence of embryonic cell lines	M-3		CPEB1		
Proliferation of embryonic tissue	M-3		NCOA3		
Density of intrasyncytial bays	M-3		NCOA3		
Morphology of smooth muscle cells	M-3		RGS2		
Aneuploidy of embryonic cell lines	EGA1-1			PRMT1	
Aneuploidy of fibroblast cell lines	EGA1-1			PRMT1	
Self-renewal of lymphatic system cells	EGA1-1			PRMT1	
Methylation of L-arginine	EGA1-1			PRMT1	
Influx of nitrate	EGA1-1			SLC17A5	
Fusion of styloid process of temporal bone	EGA1-1			PCGF2	
Cytostasis of gonadal cell lines	EGA1-1			CSNK2A1	
Segmentation of occipital bone	EGA1-1			PCGF2	
Quantity of apoptotic oligodendrocytes	EGA1-1			SLC17A5	
Expansion of pro-T lymphocytes	EGA1-1			PCGF2	

Proliferation of lymphocyte precursor cells	EGA1-1					PCGF2
Morphology of mesenchymal stem cells	EGA1-1					CSNK2A1
Segmentation of basilar bone	EGA1-1					PCGF2
Quantity of oligodendrocytes	EGA1-1					PRMT1 SLC17A5
Arrest in sub-G1 phase of squamous cell carcinoma cell lines	EGA1-1					CSNK2A1
Polyploidy of fibroblast cell lines	EGA1-1					PRMT1
Morphology of cortical projection neurons	EGA1-1	TUBA1A				
Deamination of adenosine	EGA1-1					ADAT1
Proliferation of embryonic stem cells	EGA2-1					HMGB1
Processing of rRNA	EGA2-1					LAS1L NPM1
Permeability of intestine	EGA2-1					HMGB1 HNF4A
Cell death of bone cancer cell lines	EGA2-2					VDAC2
Initiation of transcription	EGA2-1		EP300			
G2/M phase of tumor cell lines	EGA2-1					HLA-G NFYA NPM1 RAD17 RASSF1 SGK1
Contraction of heart ventricle	EGA2-1					ROCK1
Decay of RNA	EGA2-1					UPF3B
Cell viability of gastrointestinal stromal tumor cell lines	EGA2-1			ENO1		
Invasion of stomach cancer cell lines	EGA2-1					RASSF1
Apoptosis of synovial fibroblasts	EGA2-1				BAX	
Cytostasis of connective tissue cells	EGA2-1					METAP2
Initiation of S phase of kidney cell lines	EGA2-1			CDK6		
Cell death of spleen-derived dendritic cells	EGA2-1				BAX	
Mitosis of fibroblast cell lines	EGA2-1					PTPN11 RASSF1
Quantity of ursodeoxycholic acid	EGA2-1					HNF4A NR5A2
Stabilization of mitochondria	EGA2-1				BAX	
Formation of nucleosomes	EGA2-1					HMGB1 METAP2 NPM1
Arrest in growth of neuronal progenitor cells	EGA2-1			CDK6		
Cell death of megakaryocytes	EGA2-1				BAX	
Mitotic exit of cervical cancer cell lines	EGA2-1					KPNB1
Apoptosis of bone marrow-derived neutrophils	EGA2-1				BAX	
Aggregation of skin cell lines	EGA2-1					ROCK1

Implantation of embryo	EGA2-1						NR5A2	
							SGK1	
Cell cycle progression of bone cancer cell lines	EGA2-1						RAD17	
G2/M phase of colorectal cancer cell lines	EGA2-1						NFYA	
							NPM1	
							RAD17	
Aggregation of carcinoma cell lines	EGA2-1						ROCK1	
Arrest in G1 phase of breast cancer cell lines	EGA2-1						ARHGAP11	
							A RAD17	
							RASSF1	
G2/M phase of breast cell lines	EGA2-1		EP300					
Binding of chromosomes	EGA2-1						HMGB1	
G2 phase of colorectal cancer cell lines	EGA2-1						NFYA	
							NPM1	
							RAD17	
G1 phase of breast cancer cell lines	EGA2-1						ARHGAP11	
							A RAD17	
							RASSF1	
Production of C18-ceramide	EGA2-1				BAX			
Arrest in G2/M phase of tumor cell lines	EGA2-1						HLA-G	
							NFYA	
							RASSF1	
							SGK1	
Arrest in G2/M phase	EGA2-1						HLA-G	
							NFYA	
							PTPN11	
							RASSF1	
							SGK1	
							UBQLN2	
Formation of apoptosome	EGA2-1		APAF1					
Aggregation of epithelial cell lines	EGA2-1						ROCK1	
							TXNRD1	
Morphology of Peyer's patches	EGA2-1			ID2				
Decay of mRNA	EGA2-1						UPF3B	
Killing of bone marrow-derived dendritic cells	EGA2-1				BAX			
Morphology of muscle cell lines	EGA2-1	H2AFZ						
Arrest in cell cycle progression of muscle cells	EGA2-1		EP300					
Opening of permeability transition pores	EGA2-1				BAX			
Synthesis of retinyl ester	EGA2-1						HNF4A	
Transmission of lipopolysaccharide	EGA2-1						HMGB1	
Production of natural killer precursor cells	EGA2-1			ID2				
Mitosis of liver cells	EGA2-1							SIRT1
Proliferation of glandular epithelial cells	EGA2-1		EIF3H					
Cell survival of fibroblast cell lines	EGA2-1							SIRT1
Annealing of hnRNA	EGA2-1						HNRNPC	
Differentiation of reticulocytes	EGA2-1						TFRC	
Maturation of rRNA	EGA2-1						NPM1	
Permeability of mitochondrial outer membrane	EGA2-1				BAX			
Recruitment of vesicles	EGA2-1				ACTB			
Import of green fluorescent protein	EGA2-1						KPNB1	

Migratory capacity of melanoma cell lines	EGA2-1			ID2				
Morphology of chromatin	EGA2-1		EP300 HAT1					
Replication of genomic DNA	EGA2-1					TFAM		
Vacuolation of melanocytes	EGA2-2					CTSV		
Initiation of cohesion of sister telomere	EGA2-2				CBX3			
Scaling of inner root sheath	EGA2-2					CTSV		
Thickening of cardiomyocytes	EGA2-2					MARCKSL1		
Proliferation of melanocytes	EGA2-2					CTSV		
Quantity of lung tissue	EGA2-2							HMOX1
Degradation of chromosomes	EGA2-2				XRCC5			
Attachment of desmosomes	EGA2-2						DSP	
Re-entry into M phase of lung cell lines	EGA2-2				XRCC5			
Recovery of heart ventricle	EGA2-2							HMOX1
Damage of cellular membrane	EGA2-2							HMOX1
Oxidative stress response of macrophage cancer cell lines	EGA2-2							HMOX1
Quantity of LH	EGA2-2							HMOX1
Migration of podocytes	EGA2-2					CTSV		
Radiosensitivity of lung cell lines	EGA2-2				XRCC5			
Colony formation of Helicobacter pylori 10700	EGA2-2							HMOX1
Maturation of satellite cells	EGA2-2							HMOX1
Polyploidization of colorectal cancer cell lines	EGA2-2				XRCC5			
Contraction of arteriole	EGA2-2							HMOX1
Maturation of osteoclasts	EGA2-2							HMOX1
Healing of gastric mucosa	EGA2-2							HMOX1
Thickness of gingiva	EGA2-2					CTSV		
Metabolism by embryonic cell lines	EGA2-2				EPCAM			
Metabolism by fibroblast cell lines	EGA2-2				EPCAM			
Disassembly of actin filaments	EGA2-2				CAP1			
Cell viability of leukocyte cell lines	EGA2-2							HMOX1
Stabilization of chromosomes	EGA2-2				XRCC5			
Breakdown of heme	EGA2-2							HMOX1
Attachment of intermediate filaments	EGA2-2						DSP	
Oxidative stress response of melanoma cell lines	EGA2-2							HMOX1
Metabolism by squamous cell carcinoma cell lines	EGA2-2				EPCAM			
Fusion of chromosomes	EGA2-2				XRCC5			
Cell viability of stem cells	EGA2-2				XRCC5			
Formation of epidermis	EGA2-2					CTSV		
Dissociation of chromosomes	EGA2-2				XRCC5			
Killing of Staphylococcus aureus subsp. aureus str. Newman	EGA2-2					CTSV		
Stimulation of CD8+ T lymphocyte	EGA2-2							HMOX1

Oxidative stress response of tumor cell lines	EGA2-2					HMOX1
S phase of carcinoma cell lines	EGA2-2					HMOX1
Stabilization of desmosomes	EGA2-2				DSP	
Generation of bilirubin	EGA2-2					HMOX1
Deposition of vascular smooth muscle cells	EGA2-2					HMOX1
Accumulation of vascular smooth muscle cells	EGA2-2					HMOX1
Morphology of intercalated disks	EGA2-2			MARCKSL1		
Sealing of cellular membrane	EGA2-2				DSP	
Double-stranded DNA break repair of cells	EGA2-2		XRCC5			
S phase of lung cancer cell lines	EGA2-2					HMOX1
Apoptosis of gastric mucous cells	EGA2-2					HMOX1
Survival of smooth muscle cell lines	EGA2-2					HMOX1
Metabolism by kidney cell lines	EGA2-2		EPCAM			
Formation of hair follicle	EGA2-2			CTSV		
Alignment of actin filaments	EGA2-2			MARCKSL1		
Concentration of reactive oxygen species	EGA2-2					HMOX1
Metabolism by epithelial cell lines	EGA2-2		EPCAM			
Cleavage of heme	EGA2-2					HMOX1
Maturation of bone marrow-derived immature dendritic cells	EGA2-2					HMOX1
Maturation of myoblasts	EGA2-2					HMOX1
Radiosensitivity of tumor cell lines	EGA2-2		XRCC5			
Quantity of prostatic duct	EGA2-2		WDR77			
Viability	EGA2-2		XRCC5			
Translocation of chromosomes	EGA2-2		XRCC5			
Thickness of fibrous cap	EGA2-2					HMOX1
Proliferation of basal keratinocytes	EGA2-2			CTSV		
Homeostasis of bilirubin	EGA2-2					HMOX1
Conversion of heme	EGA2-2					HMOX1
Oxidation of heme	EGA2-2					HMOX1
Secretion of taurocholic acid	EGA2-2					HMOX1
Differentiation of prostatic tissue	EGA2-2		WDR77			
Survival of heart	EGA2-2					HMOX1
Quantity of keratin intermediate filaments	EGA2-2				DSP	
Formation of desmosomes	EGA2-2				DSP	
Morphology of myofibrils	EGA2-2			MARCKSL1		
Cell-cell adhesion of keratinocyte cancer cell lines	EGA2-2				DSP	
Development of sensory organ	EGA2-4				DSC1	
Formation of utricle	EGA2-4				DSC1	
Fragility of epidermis	EGA2-4				DSC1	
Permeability of epidermis	EGA2-4				DSC1	
Lifespan of organism	EGA3-1		CEBPB			

Secretion of prostaglandin E2	EGA3-1				ACSL4
Quantity of lactic acid	EGA3-1				LEP
Apoptosis of peritoneal macrophages	EGA3-1			CEBPB LGALS3	
Quantity of reactive oxygen species	EGA3-2			MTTP	
Cell death of motor neurons	EGA3-1				TNFRSF1A
Growth of yeast	EGA3-2			IFNAR1	
Oxidation of long chain fatty acid	EGA3-2			MTTP	
Outgrowth of neuroblasts	EGA3-2			ITGA6	
Oxidation of oleic acid	EGA3-2			MTTP	
Assembly of lipoprotein	EGA3-2			MTTP	
Proliferation of erythroblasts	EGA3-2			IFNAR1	
Interaction of Schwann cells	EGA3-2			ITGA6	
Binding of skin cell lines	EGA3-2			ITGA6	
Development of proamniotic cavity	EGA3-2			HSP90B1	
Colony formation of cervical cancer cell lines	EGA3-2			SMARCE1	
Delay in organismal death	EGA3-2			IFNAR1	
Invasion of ovarian cancer cell lines	EGA3-2			CLDN3	
Beta-oxidation of long chain fatty acid	EGA3-2			MTTP	
Stabilization of filopodia	EGA3-2			ITGA6	
Ossification of cardiac muscle	EGA3-3	UTRN			
Morphology of neuromuscular junctions	EGA3-3	UTRN			
Quantity of postsynaptic membrane	EGA3-3	UTRN			
Ossification of skeletal muscle	EGA3-3	UTRN			
Morphology of myotendinous junctions	EGA3-3	UTRN			
Infiltration by connective tissue cells	EGA3-3	UTRN			
Folding of postsynaptic membrane	EGA3-3	UTRN			
Accumulation of intramyocellular lipid store	EGA3-3	UTRN			
Lipolysis of lipid	EGA3-4				PPARA
Quantity of lactic acid	EGA3-4				PPARA
Development of tumor cell lines	EGA3-4				ATF3 PPARA
Differentiation of adipocytes	EGA3-4				ATF3 PPARA
Synthesis of cholesterol ester	EGA3-4				PPARA
Quantity of peroxisomes	EGA3-4				PPARA
Oxidation of palmitoyl-coenzyme A	EGA3-4				PPARA
Oxidation of oleic acid	EGA3-4				PPARA
Delay in organismal death	EGA3-4				ATF3
Invasion of ovarian cancer cell lines	EGA3-4				ATF3
Utilization of D-glucose	EGA3-4				PPARA
Synthesis of ketone body	EGA3-4				PPARA
Development of breast cell lines	EGA3-4				PPARA
Hydrolysis of protein	EGA3-4	HOMER2			
Steroidogenesis of hormone	EGA3-4				ATF3 PPARA

Spermatogenesis	EGA3-4		PPARA
Synthesis of glycerol	EGA3-4		PPARA
Quantity of mitochondrial cristae	EGA3-4		PPARA
Colony formation of ovarian cancer cell lines	EGA3-4		ATF3
Secretion of cholesterol	EGA3-4		PPARA
Migration of bladder cancer cell lines	EGA3-4		ATF3
Removal of cholesterol	EGA3-4		PPARA
Size of peroxisomes	EGA3-4		PPARA
Fragmentation of cells	EGA3-4		PPARA
Formation of testis	EGA3-4		PPARA
Accumulation of stearic acid	EGA3-4		PPARA
Colony formation of fibroblasts	EGA3-4		ATF3
Quantity of carnitine	EGA3-4		PPARA
Secretion of leukotriene B4	EGA3-4		PPARA
Cell viability of eye cell lines	EGA3-4		PPARA
Density of mitochondrial cristae	EGA3-4		PPARA
Regeneration of peripheral nerve	EGA3-4		ATF3
Concentration of testosterone	EGA3-4		PPARA
Apoptosis of lymphocytes	EGA3-4		PPARA
Elongation of neurites	EGA3-4		ATF3
Mass of liver	EGA3-4		PPARA
Accumulation of oleic acid	EGA3-4		PPARA
Cell movement of vascular smooth muscle cells	EGA3-4		ATF3
Function of heart ventricle	EGA3-4		PPARA
Colony survival of lung cancer cell lines	EGA3-4		ATF3
Quantity of lipid peroxide	EGA3-4		PPARA
Formation of skin	EGA3-4		PPARA
Proliferation of vascular smooth muscle cells	EGA3-4		PPARA
Regulation of L-glutamic acid	EGA3-4	HOMER2	
Absorption of cholesterol	EGA3-4		PPARA
Catabolism of lipoprotein	EGA3-4		PPARA
Generation of superoxide	EGA3-4		PPARA
Accumulation of palmitic acid	EGA3-4		PPARA
Binding of DNA endogenous promoter	EGA3-4		PPARA
Metabolism of terpenoid	EGA3-4		ATF3
Regulation of cholesterol	EGA3-4		PPARA
Quantity of segmented filamentous bacterium	EGA3-4		PPARA
Mitogenesis of hepatocytes	EGA3-4		PPARA
Binding of NF-kappa B response element	EGA3-4		PPARA
Recovery of heart	EGA3-4		PPARA
Synthesis of urea	EGA3-4		PPARA
Ingestion of ethanol	EGA3-4	HOMER2	
Apoptosis of fibroblasts	EGA3-4		ATF3
Development of B lymphocytes	EGA3-4		PPARA
Formation of ketone body	EGA3-4		PPARA
Modification of chromatin	EGA3-4		ATF3
Concentration of cholesterol	EGA3-4		PPARA
Place preference	EGA3-4	HOMER2	
Quantity of stratum corneum	EGA3-4		PPARA

G1/S phase transition of fibroblasts	EGA3-4		ATF3
Function of peroxisomes	EGA3-4		PPARA
Transport of fatty acid	EGA3-4		PPARA
Size of atrium	EGA3-4		ATF3
Breakdown of mitochondrial outer membrane	EGA3-4		PPARA
Apoptosis of leukocytes	EGA3-4		ATF3 PPARA
Oxidation of fat	EGA3-4		PPARA
Function of mitochondria	EGA3-4		ATF3
Proliferation of peroxisomes	EGA3-4		PPARA
Excretion of sterol	EGA3-4		PPARA
Quantity of endothelial progenitor cells	EGA3-4		PPARA
Development of breast cancer cell lines	EGA3-4		PPARA
Secretion of triacylglycerol	EGA3-4		ATF3 PPARA
Morphology of embryonic cell lines	EGA3-4		ATF3
Homeostasis of lipid	EGA3-4		PPARA
Adipogenesis of liver	EGA3-4		PPARA
Regulation of triacylglycerol	EGA3-4		PPARA
Tubulogenesis of endothelial cell lines	EGA3-4		ATF3
Oxidation of 9-methylpentadecanoic acid	EGA3-4		PPARA
Regulation of D-glucose	EGA3-4		PPARA
Apoptosis of bone marrow-derived mast cells	EGA3-4		ATF3
Cycling of D-glucose	EGA3-4		PPARA
Accumulation of linoleic acid	EGA3-4		PPARA
Degradation of leukotriene B4	EGA3-4		PPARA
Response of hepatocytes	EGA3-4		PPARA
Mass of adipose tissue	EGA3-4		ATF3 PPARA
Generation of immunosuppressive regulatory B cells	EGA3-4		PPARA
Cocaine seeking behavior	EGA3-4	HOMER2	
Nocifensive behavior	EGA3-4		PPARA
Tubulogenesis	EGA3-4		ATF3 PPARA
Infiltration by lipid	EGA3-4		PPARA
Metabolism of amino acids	EGA3-4		PPARA
Metabolism by adipose tissue	EGA3-4		PPARA
Adipogenesis	EGA3-4		PPARA
Uptake of bile salt	EGA3-4		PPARA
Conduction of heart	EGA3-4		ATF3
Excision repair	EGA3-4		ATF3
Storage of lipid	EGA3-4		PPARA
Production of taurocholic acid	EGA3-4		PPARA
Apoptosis of superior cervical ganglion neurons	EGA3-4		ATF3
Synthesis of 2-arachidonoylglycerol	EGA3-4	HOMER2	
Synthesis of testosterone	EGA3-4		PPARA
G1/S phase transition	EGA3-4		ATF3 PPARA
Synthesis of lipoprotein	EGA3-4		PPARA

Development of endocrine region of pancreas	EGA3-4		ATF3
Transport of mitochondria	EGA3-4		ATF3
G1/S phase transition of smooth muscle cells	EGA3-4		PPARA
Cell viability of ovarian cancer cell lines	EGA3-4		PPARA
Disappearance of D-glucose	EGA3-4		PPARA
Synthesis of carnitine	EGA3-4		PPARA
Development of digestive system	EGA3-4		ATF3
Esterification of cholesterol	EGA3-4		PPARA
Uptake of 9-methylpentadecanoic acid	EGA3-4		PPARA
Delay in formation of stratum corneum	EGA3-4		PPARA
Mass of fat pad	EGA3-4		PPARA
Binding of AP1 response element	EGA3-4		PPARA
Tubulogenesis of endothelial cells	EGA3-4		PPARA
Distribution of mitochondria	EGA3-1	PINK1	
Cleavage of protein binding site	EGA3-1	CEBPB	
Binding of AP1/CRE element	EGA3-1		LEP
Diffusion of K+	EGA3-1		LEP
DNA damage response of breast cell lines	EGA3-1	NTHL1	
Quantity of megakaryocytes	EGA3-1	FLNA	
Binding of breast cell lines	EGA3-1	ELF3 LGALS3	
Development of germinal center	EGA3-1		TNFRSF1A
Growth of focal adhesions	EGA3-1	FLNA	
Initiation of cell movement of neurons	EGA3-1	FLNA	
Development of pancreatic cancer cell lines	EGA3-1	CEBPB	
Quantity of S-adenosylmethionine	EGA3-1		TNFRSF1A
Cell spreading of fibrosarcoma cell lines	EGA3-1	FLNA	
Concentration of glycerol	EGA3-1		LEP TNFRSF1A
Regulation of connective tissue cells	EGA3-1		LEP
Accumulation of tetracosahexaenoic acid	EGA3-1	ACOX1	
Initiation of migration of leukemia cell lines	EGA3-1	FLNA	
Quantity of peroxisomes	EGA3-1	ACOX1	
Delay in S phase of fibroblasts	EGA3-1		GRB10
Apoptosis of stria vascularis cells	EGA3-1	TFB1M	
Autophagy of mitochondria	EGA3-1	PINK1	
Closure of embryonic tissue	EGA3-1		CFL1
Hypermaturation of dendritic cells	EGA3-1	ELF3	
Cell spreading of RPE cells	EGA3-1	LGALS3	
Glomerular filtration rate of kidney	EGA3-1		TNFRSF1A
Apoptosis of endometrial cells	EGA3-1	CEBPB	

Double-stranded DNA break repair of tumor cell lines	EGA3-1	TP53I3		
Accumulation of primary spermatocytes	EGA3-1		SHBG	
Dispersal of nuclear bodies	EGA3-1		XPO1	
Binding of p53 response element	EGA3-1		CEBPB	
Cell cycle progression of neurons	EGA3-1		FLNA YWHAB	
Cell division of hepatocytes	EGA3-1			TNFRSF1A
Onset of cell death	EGA3-1			LEP
Cytotoxicity of fibroblasts	EGA3-1			TNFRSF1A
Downregulation of steroid	EGA3-1			LEP
Stimulation of prostaglandin E2	EGA3-1			LEP
Release of steroid hormone	EGA3-1			LEP
G2 phase of fibroblasts	EGA3-1			GRB10
Synthesis of sphinganine	EGA3-1		ORMDL1	
Activation of hypothalamic neurons	EGA3-1			LEP
Attachment of RPE cells	EGA3-1		LGALS3	
Activation of smooth muscle cells	EGA3-1			LEP
Delamination of neural crest cells	EGA3-1			CFL1
Contraction of ventricular myocytes	EGA3-1			LEP
Segregation of cells	EGA3-1			TNFRSF1A
Cell viability of bone marrow stromal cells	EGA3-1			LEP
Clearance of Trypanosoma cruzi Tulahuen strain	EGA3-1		LGALS3	
Cell cycle progression of cortical neurons	EGA3-1		YWHAB	
Interconnectivity of mitochondria	EGA3-1		PINK1	
Closure of neural tube	EGA3-1			CFL1
Transcytosis	EGA3-1		FLNA	
Synthesis of phosphatidylethanolamine	EGA3-1		ACBD6	
Bone mineral density of trabecula	EGA3-1			LEP
Ruffling of cell periphery	EGA3-1		FLNA	
Activation of vagus nerve	EGA3-1			LEP
Daytime core body temperature	EGA3-1			LEP
Growth of organism	EGA3-2		IFNAR1 ITGA6 MTTP DUSP6	
Synthesis of D-glucose	EGA4-1		SLC37A4 TCF7L2	
Accumulation of ganglioside	EGA4-1		HEXA PSAP	
Recruitment of phospholipid	EGA4-1		APOA1 VTN	
Accumulation of glycogen	EGA4-1		APOA1 SLC37A4	
Cell spreading of endothelial cell lines	EGA4-1		VTN	
Binding of embryonic cell lines	EGA4-1		TIMP3 VTN	
Shape change of endothelial cell lines	EGA4-1		VTN	
Size of islets of Langerhans	EGA4-1		TCF7L2	

Cell movement of endothelial cells	EGA4-2	CDH2		
Migration of prostate cancer cell lines	EGA4-2	CDH11		
Cell movement of fibrosarcoma cell lines	EGA4-2	CDH2		
Polarization of cells	EGA4-2	CDH2		
Cell movement of sarcoma cell lines	EGA4-2	CDH2		
Extension of cellular protrusions	EGA4-2	CDH2		
Aggregation of fibroblasts	EGA4-2	CDH11		
Cell death of endothelial cell lines	EGA4-2	CDH2		
Aggregation of myoblasts	EGA4-2	CDH2		
Assembly of fibroblast cell lines	EGA4-2	CDH2		
Size of heart	EGA4-2	CDH2		
Structure of synapse	EGA4-2	CDH2		
Assembly of ovarian cancer cell lines	EGA4-2	CDH2		
Morphogenesis of head	EGA4-2	CDH2		
Binding of mural cells	EGA4-2	CDH2		
Architecture of pneumocytes	EGA4-2	CDH11		
Quantity of muscle cells	EGA4-2	CDH11		
Morphology of yolk sac	EGA4-2	CDH2		
Size of pericardial cavity	EGA4-2	CDH2		
Aggregation of ventricular myocytes	EGA4-2	CDH2		
Quantity of myofibroblasts	EGA4-2	CDH11		
Quantity of fibroblasts	EGA4-2	CDH11		
Morphogenesis of medial ganglionic eminences	EGA4-2	CDH2		
Cell-cell adhesion of fibroblast cell lines	EGA4-2	CDH11		
Aggregation of cortical neurons	EGA4-2	CDH2		
Formation of basal layer of epidermis	EGA4-2	CDH11		
Quantity of bone cells	EGA4-3			CD47
Quantity of connective tissue cells	EGA4-3			CD47
Binding of endothelial cells	EGA4-3			CD47
Quantity of osteoblasts	EGA4-3			CD47
Cell movement of sarcoma cell lines	EGA4-3		CTSB	
Recruitment of cells	EGA4-3			CD47
Differentiation of bone cells	EGA4-3			CD47
Proliferation of liver cells	EGA4-3		CTSB	
Proliferation of hepatic stellate cells	EGA4-3		CTSB	
Survival of soft tissue	EGA4-3			CD47
Transendothelial migration of leukocytes	EGA4-3			CD47
Translocation of galactosylceramide	EGA4-3			PLP1
Expression of mRNA	EGA4-3			CD47
Development of microvasculature	EGA4-3		CTSB	
Destruction of cancer cells	EGA4-3			CD47
Response of helper T lymphocytes	EGA4-3			PLP1
Delay in initiation of differentiation of lung cell lines	EGA4-3		CTSB	

Cell viability of neuroglia	EGA4-3			PLP1
Development of bone marrow cells	EGA4-3			CD47
Sequestration of cholesterol	EGA4-3			PLP1
Cell movement of endothelial cell lines	EGA4-3		CTSB	
Cleavage of coumarin	EGA4-3		CTSB	
Accumulation of granules	EGA4-3		ITGB5	
Relaxation of vascular smooth muscle cells	EGA4-3			CD47
Migration of glioblastoma cells	EGA4-3		CTSB	
Binding of splenocytes	EGA4-3			CD47
Translocation of lactosylceramide	EGA4-3			PLP1
Stabilization of myelin sheath	EGA4-3			PLP1
Structure of myelin sheath	EGA4-3			PLP1
Polarization of lymphoma cell lines	EGA4-3			CD47
Dissemination of diffuse large B-cell lymphoma cells	EGA4-3			CD47
Proliferation of hepatic stellate cells/myofibroblasts	EGA4-3		CTSB	
Accumulation of lysosome	EGA4-3		CTSB	
Cell movement of bone cancer cell lines	EGA4-3		CTSB	
Clonal expansion of Th2 cells	EGA4-3			PLP1
Myelination	EGA4-3			PLP1
Cell death of type 1 macrophages	EGA4-3		CTSB	
Cell death of exocrine cells	EGA4-3		CTSB	
Adhesion of leukemia cell lines	EGA4-3			CD47
Elongation of B lymphocytes	EGA4-3			CD47
Size of T-cell zone	EGA4-3			CD47
Survival of oligodendrocytes	EGA4-3			PLP1
Translocation of glucosylceramide	EGA4-3			PLP1
Dissemination of tumor cell lines	EGA4-3			CD47
Elimination of red blood cells	EGA4-3			CD47
Development of gastrointestinal tract	BL-Down-1	SLC4A4		
Mislocalization of melanosomes	BL-Down-1	MYO7A		
Weakness of dentin	BL-Down-1	SLC4A4		
Depolarization of hair cells	BL-Down-1	MYO7A		
Synthesis of UDP-N-acetyl-D-galactosamine	BL-Down-1	UAP1		
Development of stereocilia	BL-Down-1	MYO7A		
Transepithelial electrical resistance of breast cancer cell lines	BL-Down-1	ID1		
Degradation of photoreceptors	BL-Down-1	MYO7A		
Activation of vascular endothelial cells	BL-Down-1	ID1		
Movement of melanosomes	BL-Down-1	MYO7A		

Glycolysis of hepatoma cell lines	BL-Down-1		ID1	
Self-renewal of colorectal cancer cell lines	BL-Down-1		ID1	
Transmigration of vascular endothelial cells	BL-Down-1		ID1	
Signaling of astrocytes	BL-Down-1		SLC4A4	
Length of telomeres	BL-Down-1		ID1	
Binding of GATA-4 binding site	BL-Down-1		ID1	
Binding of Nkx2.5 binding site	BL-Down-1		ID1	
Accumulation of carcinoma cell lines	BL-Down-1		ID1	
Cytostasis of smooth muscle cells	BL-Down-1		ID1	
Size of white adipocytes	BL-Down-1		ID1	
Premature senescence of breast cancer cell lines	BL-Down-1		ID1	
Neurogenesis of neuroepithelial cells	BL-Down-1		ID1	
Response of astrocytes	BL-Down-1		SLC4A4	
Movement of organelle	BL-Down-1		MYO7A	
Accumulation of lung cancer cell lines	BL-Down-1		ID1	
Re-entry into cell cycle progression of fibroblast cell lines	BL-Down-1		ID1	
Differentiation of pro-T3 thymocytes	BL-Down-1		ID1	
Development of body axis	M-1	BMP4 BMPR1A EGR1	CDCA7L STXBP1	
Dendritic growth/branching	M-1	RUNX2 CAV1 TIAM1	CTNNA2 TIAM1	
Shape change of neurites	M-1	CAV1 TIAM1	CTNNA2 TIAM1	
Cognition	M-1	BMPR1A EGR1	MEIS2	
Shape change of neurons	M-1	CAV1 TIAM1	CTNNA2 TIAM1	
Cytostasis	M-1	BMP4 BMPR1A CAV1 EGR1	CCND3 CDCA8	
Formation of brain	M-1	IKZF3 EGR1	CDCA7L STXBP1	
Cytostasis of tumor cell lines	M-1	BMP4 BMPR1A CAV1 EGR1	CCND3 CDCA8	
Density of neurons	M-1	BMPR1A TIAM1	TIAM1	
Quantity of endocrine cells	M-1		CCND3 E2F1	E2F1
Formation of actin filaments	M-1	BMP4 CAV1 TIAM1	MYLK TIAM1	
Migration of central nervous system cells	M-1	BMP4 BMPR1A TIAM1	TIAM1	

Contact growth inhibition	M-1	BMP4 BMPR1A EGR1	CCND3		
Cell movement of fibroblasts	M-1	IKZF3 CAV1 SKAP2 TIAM1	ENPP2 TIAM1		
Adhesion of breast cancer cell lines	M-1	TIAM1	TIAM1		
Migration of brain cells	M-1	BMP4 BMPR1A TIAM1	TIAM1		
Contact growth inhibition of tumor cell lines	M-1	BMP4 BMPR1A EGR1	CCND3		
Cell death of germ cells	M-1	EGR1	DNMT1		
Cell movement of brain cells	M-1	BMP4 BMPR1A TIAM1	TIAM1		
Destabilization of microtubules	M-1	EGR1	KIF2C		
Cell movement of central nervous system cells	M-1	BMP4 BMPR1A CAV1 TIAM1	TIAM1		
Cell death of gonadal cells	M-1	EGR1	DNMT1		
Density of dendritic spines	M-1	TIAM1	TIAM1		
Retraction of neurites	M-1	TIAM1	TIAM1		
Differentiation of skeletal muscle cells	M-1	BMP4	AREG		
Cell death of superior cervical ganglion neurons	M-1		HSPB1		HSPB1
Binding of carcinoma cell lines	M-1	CAV1 TIAM1	TIAM1		
Cell movement of squamous cell carcinoma cell lines	M-3		AURKA	AURKA	
Interphase of kidney cell lines	M-1		CCND3 E2F1		E2F1
Morphology of nervous system	M-1	BMP4 BMPR1A EGR1 TIAM1	CTNNA2 TIAM1		
Patterning of embryo	M-1		E2F1		E2F1
Penetration of microtubules	M-1	TIAM1	TIAM1		
Formation of coronary vessel	M-1		CDKN2B TUBA1C		TUBA1C
Association of DNA damage focus	M-3		PCNA	PCNA	
Delay in mitosis of cervical cancer cell lines	M-3		AURKA	AURKA	
Assembly of central spindle	M-3		AURKA	AURKA	
Acetylation of chromatin	M-3		PCNA	PCNA	
Binding of plasmid DNA	M-3		PCNA	PCNA	
Aneuploidy	M-3		AURKA	AURKA	
Modulation of microtubules	M-3		AURKA	AURKA	
Mitotic catastrophe of rhabdoid cell lines	M-3		AURKA	AURKA	
Accumulation of pancreatic cancer cell lines	M-3		AURKA	AURKA	
Caspase-independent cell death of pancreatic cancer cell lines	M-3		AURKA	AURKA	
Sensitivity of gonadal cell lines	M-3		PCNA	PCNA	

Survival of rhabdoid cell lines	M-3		AURKA			AURKA			
Mutagenesis of gene	M-3		PCNA			PCNA			
Delay in cell cycle progression of tumor cell lines	M-3		AURKA PCNA			AURKA PCNA			
Apoptosis of rhabdoid cell lines	M-3		AURKA			AURKA			
G1/S phase transition of lung cell lines	EGA1-1		CCNA1					CSNK2A1	
Duplication of body axis	EGA1-1				LDLR			LDLR	
Differentiation of plasma cells	EGA1-1	CXCR4		CXCR4					
Mobilization of mononuclear leukocytes	EGA1-1	CXCR4		CXCR4					
Expansion of T-cell zone	EGA1-1	CXCR4		CXCR4					
Formation of marginal stream	EGA1-1	CXCR4		CXCR4					
Retention of granulocyte progenitors	EGA1-1	CXCR4		CXCR4					
Morphology of Tip cells	EGA1-1	CXCR4		CXCR4					
Circulation of daunorubicin	EGA1-1				LDLR			LDLR	
Localization of cortical interneurons	EGA1-1	CXCR4		CXCR4					
Polyploidization of epithelial cell lines	EGA1-1		TPX2					TPX2	
Maintenance of central memory cytotoxic T cells	EGA1-1	CXCR4		CXCR4					
Polyploidization of kidney cell lines	EGA1-1		TPX2					TPX2	
Retention of pro-B lymphocytes	EGA1-1	CXCR4		CXCR4					
Morphology of osteoclasts	EGA1-1				LDLR			LDLR	
Formation of spindle apparatus	EGA1-1		TPX2					TPX2	
Engraftment of hematopoietic progenitor cells	EGA1-1	CXCR4		CXCR4					
Quantity of alpha-tocopherol phosphate	EGA1-1				LDLR			LDLR	
Invasion of B cell hybridoma cells	EGA1-1	CXCR4		CXCR4					
Invasion by boundary cap cells	EGA1-1	CXCR4		CXCR4					
Area of aortic valve	EGA1-1				LDLR			LDLR	
Formation of mucus	EGA1-1	CXCR4		CXCR4					
Quantity of spirochete	EGA1-1				LDLR			LDLR	
Transmigration of endothelial tissue	EGA1-1	CXCR4		CXCR4					
Maintenance of memory natural killer cells	EGA1-1	CXCR4		CXCR4					
Deficiency of non-plasmacytoid dendritic cells	EGA1-1				LDLR			LDLR	
Migration of dental pulp stem cells	EGA1-1	CXCR4		CXCR4					
Proliferation of pancreatic duct cells	EGA1-1	CXCR4		CXCR4					
Extravasation of hepatoma cell lines	EGA1-1	CXCR4		CXCR4					
Tubulation of tumor cell lines	EGA1-1	CXCR4		CXCR4					
Preservation of elastic lamina	EGA1-1				LDLR			LDLR	
Homing of progenitor cells	EGA1-1	CXCR4		CXCR4					
Extravasation of colorectal cancer cell lines	EGA1-1	CXCR4		CXCR4					

Conversion of bile acid	EGA1-1				LDLR					LDLR		
Area of endothelial tube	EGA1-1	CXCR4		CXCR4								
Migration of mesenchymal stem cells	EGA1-1	CXCR4		CXCR4								
Binding of guanosine 5'-O-(3-thiotriphosphate)	EGA1-1	CXCR4		CXCR4								
Invasion of cervical cancer cell lines	EGA1-1	CXCR4		CXCR4								
Accumulation of kidney cell lines	EGA1-1		TPX2							TPX2		
Length of endothelial tube	EGA1-1	CXCR4		CXCR4								
Thickness of tunica intima	EGA1-1				LDLR					LDLR		
Polarization of CD4+ T-lymphocytes	EGA1-1	CXCR4		CXCR4								
Morphology of fibrous cap	EGA1-1				LDLR					LDLR		
Binding of CD4+ T-lymphocytes	EGA1-1	CXCR4		CXCR4								
Quantity of 1-palmitoyl-2-glutaroyl-sn-glycero-3-phosphorylcholine	EGA1-1				LDLR					LDLR		
Migration of gastrointestinal stromal tumor cell lines	EGA1-1	CXCR4		CXCR4								
Chemotaxis of cerebellar granule cell	EGA1-1	CXCR4		CXCR4								
Function of aortic valve	EGA1-1				LDLR					LDLR		
Trafficking of hematopoietic progenitor cells	EGA1-1	CXCR4		CXCR4								
Quantity of 1-palmitoyl-2-(5-oxovaleroyl)-sn-glycero-3-phosphorylcholine	EGA1-1				LDLR					LDLR		
Proliferation of central memory cytotoxic T cells	EGA1-1	CXCR4		CXCR4								
Formation of kinetochore microtubule	EGA1-1		TPX2							TPX2		
Uptake of lipoprotein	EGA1-1				LDLR					LDLR		
Pre-TCR checkpoint of pro-T3 thymocytes	EGA1-1	CXCR4		CXCR4								
Homologous recombination of cells	EGA2-1					RPS9				COPS7A HNRNPC LSM4 SF3B5 SNRPD2		
Pluripotency of embryonic cell lines	EGA2-1							HNRNPK		HNF4A RBM28		
Pluripotency of embryonic stem cell lines	EGA2-1							HNRNPK		RBM28		
Biosynthesis of nucleoside triphosphate	EGA2-1									HMGB1	INSR SIRT1 TFAM	
Cell death of sarcoma cell lines	EGA2-2									HSPA5 VDAC2		HSPA5
Hydrolysis of ATP	EGA2-1					APAF1 TOP2A				HMGB1		
Processing of RNA	EGA2-1							HNRNPK		LAS1L NPM1 SNRPA SRSF1		
Formation of microtubules	EGA2-1						TUBB			PLD2 RASSF1 ROCK1		
Internalization of protein	EGA2-1									KPNB1	TOMM40	
Degradation of mitochondria	EGA2-1								BAX		SIRT1	
Premature senescence of fibroblast cell lines	EGA2-1					EP300				LATS1		

Interphase of colorectal cancer cell lines	EGA2-1			EP300			DYRK1B LAS1L NFYA NPM1 NR5A2				
Repair of DNA	EGA2-2						RAD17 ST13 XRCC5				HMOX1
Mitochondrial membrane potential	EGA2-1					BAX	HNF4A				
Calcium homeostasis of endoplasmic reticulum	EGA2-1					BAX	HNF4A				
Initiation of synthesis of protein	EGA2-1			EIF5			EIF5				
Development of embryonic stem cells	EGA2-1						NFYA PTPN11	SIRT1			
Arrest in growth of keratinocytes	EGA2-1			RARG			RARG				
Homeostasis of metal ion	EGA2-1					BAX	HNF4A SGK1				
Structural integrity of nucleosomes	EGA2-1			TOP2A				CEBPZ			
Delay in mitosis	EGA2-1			TOP2A			KPNB1 RASSF1				
Initiation of S phase of smooth muscle cells	EGA2-2						GATA6	GATA6			
Quantity of carcinoma cell lines	EGA2-2									DSP	HMOX1
Cell viability of leukemia cell lines	EGA2-2						HSPA5		HSPA5		
Organization of myoepithelial cells	EGA2-2						DSC2			DSC2	
Folding of protein	EGA2-2						HSPA5 HSPA8		HSPA5 HSPA8		
Morphogenesis of mammary alveolus	EGA2-2						DSC2			DSC2	
Import of DNA	EGA2-2						HSPA8		HSPA8		
Interphase of embryonic cell lines	EGA2-2						GATA6	GATA6			
Pluripotency of fibroblast cell lines	EGA2-2						GATA6	GATA6			
Morphology of heart cells	EGA2-2						GATA6	GATA6 MARCKSL1			
Quantity of intestinal cells	EGA2-2						GATA6	GATA6			
Organization of luminal epithelial cells	EGA2-2						DSC2			DSC2	
Reprogramming of embryonic cell lines	EGA2-2						GATA6	GATA6			
Aneuploidy of ovarian cancer cell lines	EGA2-2						GATA6	GATA6			
Quantity of lung cancer cell lines	EGA2-2									DSP	HMOX1
Dedifferentiation of gonadal cell lines	EGA2-2						GATA6	GATA6			
Dissociation of vesicles	EGA2-2						HSPA8		HSPA8		
Cytokinesis of ovarian cancer cell lines	EGA2-2						GATA6	GATA6			
Formation of gamma H2AX nuclear focus	EGA2-2						XRCC5				HMOX1
Concentration of linoleic acid	EGA2-2						HSPA5		HSPA5		
Transport of calcifediol	EGA2-2						HSPA8		HSPA8		
Dedifferentiation of ovarian cancer cell lines	EGA2-2						GATA6	GATA6			
Uptake of calcifediol	EGA2-2						HSPA8		HSPA8		

Reprogramming of embryonic stem cell lines	EGA2-2						GATA6	GATA6		
Activation of muscle cells	EGA3-1						LGALS3	LEP		
Synthesis of hormone	EGA3-4	HOMER2						ATF3 PPARA		
Redistribution of phospholipid	EGA3-4	MARCKS		MARCKS						
Synthesis of acylglycerol	EGA3-4	HOMER2						PPARA		
Accumulation of phosphatidylinositol 4 5-diphosphate	EGA3-4	MARCKS		MARCKS						
Ingestion by mice	EGA3-4	HOMER2						PPARA		
Formation of membrane blebs	EGA3-4	MARCKS		MARCKS						
Retention of phosphatidylinositol 4 5-diphosphate	EGA3-4	MARCKS		MARCKS						
Reorganization of actin	EGA3-4	MARCKS		MARCKS						
Trafficking of cells	EGA3-4	MARCKS		MARCKS						
Binding of Ca2+	EGA3-4	MARCKS		MARCKS						
Clustering of phosphatidylinositol 4 5-diphosphate	EGA3-4	MARCKS		MARCKS						
Quantity of actin cytoskeleton	EGA3-4	MARCKS		MARCKS						
Necroptosis	EGA3-1						ABCE1	TNFRSF1A		
Adipogenesis of lipid	EGA3-1						CEBPB	GRB10 TNFRSF1A		
Recovery of ATP	EGA3-1						HSPE1	HSPD1		
Quantity of 1-palmitoyl-2-linoleoyl-sn-glycero-3-phosphocholine	EGA3-1						LPCAT3	LEP		
Secretion of sterol	EGA3-1						LPCAT3	LEP		
Distribution of bladder cancer cell lines	EGA3-1					POU5F1	POU5F1			
Binding of cAMP response element	EGA3-1						CEBPB	LEP		
Self-renewal of embryonic stem cells	EGA3-1					POU5F1	GNL3 POU5F1			
Stimulation of fibroblasts	EGA3-1					POU5F1	LGALS3 POU5F1			
Regulation of hormone	EGA3-1						SHBG	LEP		
Dedifferentiation of trophectoderm cells	EGA3-1					POU5F1	POU5F1			
Development of induced pluripotent stem cells	EGA3-1					POU5F1	POU5F1			
Morphology of stomach cancer cell lines	EGA3-1					POU5F1	POU5F1			
Conversion of coenzyme A	EGA3-1						ACLY		ACLY	
Growth of uterus	EGA3-1						CEBPB	LEP		
Transport of carboxylic acid	EGA4-1						IGF1 SLC25A13 SLC25A20	IGF1 SLC25A20		
Quantity of blood vessel	EGA4-1		BMP2				HNF1B			
Branching of axons	EGA4-1						APP NUAK1			APP
Transport of ion	EGA4-1						IGF1 SLC25A20	IGF1 SLC25A20		
Transport of cation	EGA4-1						IGF1 SLC25A20	IGF1 SLC25A20		
Quantity of glycosylceramide	EGA4-1						IGF1 PSAP	IGF1		
Migration of prostate cancer cell lines	EGA4-1						IGF1 VTN	IGF1		
Metabolism of hydrogen peroxide	EGA4-1						APP			APP

Accumulation of glycosphingolipid	EGA4-1			APP HEXA PSAP		APP
Quantity of cerebroside	EGA4-1			IGF1	IGF1	
Accumulation of polysaccharide	EGA4-1		BMP2	APOA1 HEXA SLC37A4		
Cellular infiltration by lymphocytes	EGA4-1			APOA1 APP TIMP3		APP
Morphology of mesangial cells	EGA4-1			IGF1	IGF1	
Dissemination of prostate cancer cell lines	EGA4-1			IGF1	IGF1	
Release of cholesterol	EGA4-1			APOA1 APP		APP
Formation of cochlear duct	EGA4-1			IGF1	IGF1	
Morphology of gland	EGA4-1			HNF1B IGF1 TCF7L2	IGF1	
Development of chondrocytes	EGA4-1		BMP2		GRN	
Distribution of lipid	EGA4-1			APP		APP
Area of muscle cells	EGA4-1			IGF1	IGF1	
Proliferation of anterior pituitary cells	EGA4-1			IGF1	IGF1	
Adhesion of neuroglia	EGA4-1			APP VTN		APP
Stabilization of intercellular junctions	EGA4-1			IGF1	IGF1	
Relengthening of cardiomyocytes	EGA4-1			IGF1	IGF1	
Chondrogenesis of fibroblast cell lines	EGA4-1		BMP2		GRN	
Catabolism of hydrogen peroxide	EGA4-1			APP		APP
Invasion of myeloma cell lines	EGA4-1			IGF1 NUAK1	IGF1	
Homeostasis of neurons	EGA4-1			APP		APP
Proliferation of stromal cell lines	EGA4-1			IGF1 LGR5	IGF1	
Size of leukocytes	EGA4-1			APP		APP
Chondrogenesis of embryonic cell lines	EGA4-1		BMP2		GRN	
Pyknosis	EGA4-1			APP		APP
Release of hydrogen peroxide	EGA4-1			IGF1	GRN IGF1	
Active avoidance response	EGA4-1			APP		APP
Neuroprotection of tumor cell lines	EGA4-1			APP		APP
Density of microglia	EGA4-1			APP		APP
Rearrangement of actin stress fibers	EGA4-1			IGF1	IGF1	
Density of macrophages	EGA4-1			APP		APP
Migration of endometrial cancer cell lines	EGA4-1			FOXA1 IGF1	IGF1	
Regeneration of bone	EGA4-1		BMP2		GRN	
Mitogenesis of central nervous system cells	EGA4-1			IGF1	IGF1	
Quantity of sulfatides	EGA4-1			IGF1 PSAP	IGF1	
Morphology of pancreas	EGA4-1			HNF1B IGF1 TCF7L2	IGF1	
Binding of cholesterol	EGA4-1			APOA1 APP		APP
Quantity of ganglioside GD3	EGA4-1			APP		APP
Aggregation of filaments	EGA4-1			APP		APP

Thickness of cortical bone	EGA4-1								IGF1	IGF1		
Size of pancreas	EGA4-1								IGF1 TCF7L2	IGF1		
Binding of cell surface	EGA4-1								IGF1 VTN	IGF1		
Regression of embryonic tissue	EGA4-1		WNT7A	WNT7A								
Invasion of lymphoma cell lines	EGA4-1								IGF1 NUAK1	IGF1		
Distribution of cholesterol	EGA4-1								APP			APP
Context memory	EGA4-1								APP			APP
Oxidation of cholesterol	EGA4-1								APP			APP
Mitogenesis of neuroglia	EGA4-1								IGF1	IGF1		
Morphology of prostate cell lines	EGA4-1								IGF1	IGF1		
Shortening of cardiomyocytes	EGA4-1								IGF1	IGF1		
Quantity of lymphocytes	EGA4-3									CTSB	CD47 PLP1	
Cell movement of granulocytes	EGA4-3									CTSB	CD47 PLP1	
Cellular infiltration by granulocytes	EGA4-3									CTSB	CD47 PLP1	
Proliferation of neuronal cells	M-1	BMP4 BMPR1A CAV1 EGR1 TIAM1	E2F1 TIAM1 WWOX				E2F1					
Development of neurons	M-1	BMP4 CAV1 EGR1 TIAM1	CTNNA2 DNMT1 HSPB1 TIAM1 WWOX				HSPB1					
Migration of neurons	M-1	BMP4 BMPR1A TIAM1	ERRFI1 KIF20B TIAM1				ERRFI1					
Interaction of tumor cell lines	M-1	CAV1 EGR1 TIAM1	E2F1 TIAM1 WWOX				E2F1					
Cell cycle progression of tumor cell lines	M-1	BMP4 CAV1 EGR1	AREG CCND3 CLSPN E2F1 ERRFI1 MELK				E2F1 ERRFI1					
Proliferation of lymphatic system cells	M-3		WWOX BRCA1 MYBL1 RGS2		BRCA1	BRCA1						
Cell cycle progression of fibroblast cell lines	M-1	CAV1 RUNX2	E2F1				E2F1					
Proliferation of leukemia cell lines	M-1	BMP4 EGR1 RUNX2	E2F1 WWOX				E2F1					
Proliferation of lymphocytes	M-3		BRCA1 MYBL1 RGS2		BRCA1	BRCA1						
Differentiation of hematopoietic progenitor cells	M-1	BMP4 CD86 EGR1 RUNX2	CDKN2B E2F1 SATB1				E2F1					
Differentiation of hematopoietic cells	M-1	BMP4 CD86 EGR1 RUNX2	CDKN2B E2F1 SATB1				E2F1					
Expansion of cells	M-3		BRCA1 MYBL1		BRCA1	BRCA1						

Cell proliferation of T lymphocytes	M-3		BRCA1 RGS2			BRCA1	BRCA1					
Proliferation of prostate cancer cell lines	M-3		BRCA1 NCOA3			BRCA1	BRCA1					
Cell death of blood cells	M-3		BRCA1 PCNA			BRCA1	BRCA1 PCNA					
Arrest in proliferation of cells	M-1	BMP4 CAV1 EGR1 RUNX2	CCND3 CDKN2B E2F1					E2F1				
Morphology of exocrine cells	M-1	CAV1	E2F1					E2F1				
Breakage of double-stranded DNA	M-3		BRCA1 PCNA			BRCA1	BRCA1 PCNA					
Proliferation of epiblast cells	M-3		BRCA1			BRCA1	BRCA1					
Cell spreading of gonadal cell lines	M-3		BRCA1			BRCA1	BRCA1					
Derepression of RNA	M-3		BRCA1			BRCA1	BRCA1					
Delay in mitosis of tumor cell lines	M-3		AURKA BRCA1			BRCA1	AURKA BRCA1					
Arrest in cell cycle progression of embryonic stem cell lines	M-3		BRCA1			BRCA1	BRCA1					
Healing of gonadal cell lines	M-3		BRCA1			BRCA1	BRCA1					
Nucleation of filaments	M-3		BRCA1			BRCA1	BRCA1					
Cell movement of gonadal cell lines	M-3		BRCA1			BRCA1	BRCA1					
Meiosis of germ cells	M-3		AURKA BRCA1			BRCA1	AURKA BRCA1					
Delay in initiation of cell spreading of gonadal cell lines	M-3		BRCA1			BRCA1	BRCA1					
Micronucleation of breast cancer cell lines	M-3		BRCA1			BRCA1	BRCA1					
Quantity of hair follicle	M-3		BRCA1			BRCA1	BRCA1					
Differentiation of mammary gland	M-3		BRCA1			BRCA1	BRCA1					
Delay in mitosis of breast cancer cell lines	M-3		BRCA1			BRCA1	BRCA1					
Morphogenesis of gland	M-3		BRCA1			BRCA1	BRCA1					
Size of gonad	M-3		BRCA1			BRCA1	BRCA1					
Morphology of reproductive system	M-3		BRCA1 NCOA3			BRCA1	BRCA1					
S phase of fibroblast cell lines	M-3		BRCA1 NCOA3			BRCA1	BRCA1					
Branching of mammary gland	M-3		BRCA1			BRCA1	BRCA1					
Expansion of basal stem cells	M-3		BRCA1			BRCA1	BRCA1					
Binding of p53 consensus binding site	M-3		BRCA1			BRCA1	BRCA1					
Myelination of corpus callosum	EGA1-1	CXCR4		CXCR4						PRMT1		
Mitosis of cervical cancer cell lines	EGA1-1	TUBA1A	TPX2							TPX2		
Invasion of lung cancer cell lines	EGA1-1	CXCR4		CXCR4						PRMT1		
Repression of RNA	EGA2-1								HNRNPK	EED HMGB1 SAP18 ZNF589	KLF10 SIRT1 TGIF1	
Inhibition of leukocytes	EGA2-1						EP300			CD46 HLA-C HLA-G HMGB1	KLF10	
Autophagy of embryonic cell lines	EGA2-1							TUFM		HMGB1	ULK2	

Autophagy of bone cancer cell lines	EGA2-1				EP300				BAX		SIRT1			
Cell death of ovarian cancer cell lines	EGA2-1								GAPDH	GAPDH RASSF1	GAPDH			
Apoptosis of ovarian cancer cell lines	EGA2-1								GAPDH	GAPDH RASSF1	GAPDH			
Cell death of bone cancer cell lines	EGA2-1				HAT1 RRP1B	CDK6			BAX					
Quantity of hematopoietic progenitor cells	EGA2-2					RPS6				RPS6				RPS6
Interphase of fibroblast cell lines	EGA2-1				EP300 TOP2A					LATS1 PPP5C PTPN11	SIRT1			
Cell proliferation of carcinoma cell lines	EGA2-2									EPCAM GATA6	GATA6			HMOX1
Amplification of centrosome	EGA2-1			YBX1						NPM1 PTPN11 YBX1	YBX1			
Maturation of connective tissue	EGA2-2					RPS6				RPS6				HMOX1 RPS6
Cell death of stem cells	EGA2-1				APAF1		ID2			PTPN11 RAD17				
Cell cycle progression of fibroblasts	EGA2-1						ID2			E2F5 NFYA NPM1	INSR			
Morphology of epithelial cell lines	EGA2-1								BAX	HNF4A PTPN11 SRSF1	SIRT1			
Cell cycle progression of connective tissue cells	EGA2-1						ID2			E2F5 NFYA NPM1	INSR			
Elongation of protein	EGA2-1					RPS6				RPS6				RPS6
Survival of yeast	EGA2-1				TOP2A				BAX	RAD17				
Exit from G1 phase	EGA2-1				EP300	CDK6				RASSF1				
Maturation of red blood cells	EGA2-2					RPS6				RPS6				RPS6
Arrest in G1 phase of carcinoma cell lines	EGA2-2					RPS6				RPS6				RPS6
Maturation of hematopoietic progenitor cells	EGA2-2					RPS6				RPS6				RPS6
Stress response of tumor cell lines	EGA2-2									HSPA5		HSPA5		HMOX1
Organization of muscle cells	EGA2-2									DSC2	MARCKSL1		DSC2	
Quantity of ribosome	EGA2-2					RPS6				RPS6				RPS6
Permeability transition of mitochondria	EGA2-2									HSPA5	COX4I1	HSPA5		
Outgrowth of dendrites	EGA2-2					RPS6				RPS6				RPS6
Binding of ribosome	EGA2-2					EEF1B2				HSPA5		HSPA5		
Arrest in interphase of carcinoma cell lines	EGA2-2					RPS6				RPS6				RPS6
Apoptosis of central nervous system cells	EGA3-1									YWHAB	LEP TNFRSF1A	P4HB		
Secretion of fatty acid	EGA3-1									SCD	ACSL4 SCD	SCD		
Growth of blastocyst	EGA3-1								POU5F1	POU5F1	LEP			
Entry into mitosis	EGA3-1							TP53I3	POU5F1	GNL3 POU5F1				
Concentration of acyl-coenzyme A	EGA3-1									ACLY SCD	LEP SCD	ACLY SCD		
Sensitivity of cells	EGA3-1									SCD	SCD	SCD		
Insulin sensitivity	EGA3-1									SCD	GRB10 LEP SCD	SCD		
Mitogenesis	EGA3-4	MARCKS				MARCKS					PPARA			
Behavior	EGA3-4	HOMER2 MARCKS				MARCKS					PPARA			

Morphology of fibroblast cell lines	EGA3-4	MARCKS			MARCKS				ATF3			
Quantity of stearoyl-coenzyme A	EGA3-1							SCD	SCD	SCD		
Desaturation of palmitoyl-coenzyme A	EGA3-1							SCD	SCD	SCD		
Synthesis of cholesterol ester	EGA3-1							SCD	LEP SCD	SCD		
Desaturation of stearoyl-coenzyme A	EGA3-1							SCD	SCD	SCD		
Morphology of epithelial cells	EGA3-1						POU5F1	POU5F1	LEP			
Concentration of long chain fatty acid	EGA3-1							ACLY SCD	SCD	ACLY SCD		
Glycogenolysis	EGA3-1							CEBPB SCD	LEP SCD	SCD		
Sensitivity of connective tissue cells	EGA3-1							SCD	SCD	SCD		
Entry into mitosis of tumor cell lines	EGA3-1					TP53I3	POU5F1	POU5F1				
Concentration of 18:1(n-9) fatty acids	EGA3-1							ACLY SCD	SCD	ACLY SCD		
Quantity of fat	EGA3-1							SCD	LEP SCD	SCD		
Incorporation of phosphatidylinositol	EGA3-1							ACLY	ACSL4	ACLY		
Oxidation of palmitoyl-coenzyme A	EGA3-1							ACOX1 SCD	SCD	SCD		
Desaturation of palmitoleic acid	EGA3-1							SCD	SCD	SCD		
Modification of long-chain acyl-coenzyme A	EGA3-1							ACOX1 CPT1B SCD	CPT1B SCD	SCD		
Quantity of palmitoyl-coenzyme A	EGA3-1							SCD	SCD	SCD		
Quantity of monounsaturated fatty acids	EGA3-1							ACLY SCD	LEP SCD	ACLY SCD		
Concentration of malonyl-coenzyme A	EGA3-1							ACLY SCD	LEP SCD	ACLY SCD		
Incorporation of arachidonic acid	EGA3-1							ACLY	ACSL4	ACLY		
Incorporation of carbohydrate	EGA3-1							ACLY SCD	ACSL4 SCD	ACLY SCD		
Accumulation of fatty acid	EGA3-1							ACOX1 SCD	LEP SCD	SCD		
Proliferation of trophoblast cells	EGA3-1						POU5F1	POU5F1	LEP			
Glycogenolysis of liver	EGA3-1							SCD	LEP SCD	SCD		
Morphology of mitochondria	EGA3-1							PINK1 SCD	LEP SCD	SCD		
Accumulation of palmitoleic acid	EGA3-1							SCD	SCD	SCD		
Desaturation of palmitic acid	EGA3-1							SCD	SCD	SCD		
Proliferation of chondrocytes	EGA4-1		BMP2					IGF1	GRN IGF1			
Axonogenesis	EGA4-1							APP IGF1 NUAK1	IGF1		APP	
Quantity of glycosphingolipid	EGA4-1							APP IGF1 PSAP	IGF1		APP	
Differentiation of oligodendrocytes	EGA4-1		BMP2					IGF1 TCF7L2 VTN	IGF1			
Quantity of smooth muscle cells	EGA4-1							APP IGF1 TIMP3	IGF1		APP	
Homeostasis of ion	EGA4-1							APP IGF1	IGF1		APP	

Cell death of eye cells	EGA4-1					APP CDHR1 IGF1 TIMP3 VTN	IGF1	APP
Quantity of muscle	EGA4-1					APOA1 APP IGF1 TIMP3	IGF1	APP
Accumulation of carbohydrate	EGA4-1			BMP2		APOA1 APP HEXA SLC37A4		APP
Apoptosis of bone marrow cell lines	EGA4-1			BMP2		IGF1	IGF1	
Cell death of retinal cells	EGA4-1					APP CDHR1 IGF1 TIMP3 VTN	IGF1	APP
Apoptosis of pheochromocytoma cell lines	EGA4-1					APP IGF1 PSAP	IGF1	APP
Signaling of cells	EGA4-1					APP IGF1	IGF1	APP
Synthesis of cartilage matrix	EGA4-1			BMP2		IGF1	IGF1	
Excitation of neurons	EGA4-1					APP IGF1	IGF1	APP
Inhibition of mRNA	EGA4-1			BMP2		IGF1	IGF1	
Thickening of basement membrane	EGA4-1					APP IGF1	IGF1	APP
Morphology of trabecular bone	EGA4-1			BMP2		IGF1	IGF1	
Binding of phospholipid	EGA4-1					APP IGF1 PSAP	IGF1	APP
Neurogenesis of brain cells	EGA4-1					APP IGF1	IGF1	APP
Cell viability of vascular smooth muscle cells	EGA4-1					APP IGF1	IGF1	APP
Modification of connective tissue	EGA4-1			BMP2		IGF1	GRN IGF1	
Mitogenesis of fibroblast cell lines	EGA4-1			BMP2		IGF1	IGF1	
Metabolism of cholesterol	EGA4-1					APOA1 APP CYP51A1 HNF1B	CYP51A1	APP
Generation of embryonic cell lines	EGA4-1			BMP2		IGF1	GRN IGF1	
Homeostasis of Ca2+	EGA4-1					APP IGF1	IGF1	APP
Volume of cerebrum	EGA4-1					APP IGF1	IGF1	APP
Stimulation of red blood cells	EGA4-1			BMP2		IGF1	IGF1	
Surface area of bone	EGA4-1					APP IGF1	IGF1	APP
Deposition of proteoglycan	EGA4-1			BMP2		IGF1	IGF1	
Density of synapse	EGA4-1					APP	GRN	APP
Storage of glycogen	EGA4-1			BMP2		APP		APP
Cytotoxicity of neurons	EGA4-1					APP IGF1	IGF1	APP
Differentiation of cholinergic neurons	EGA4-1			BMP2		IGF1	IGF1	
Stimulation of brain cells	EGA4-1					APP IGF1	IGF1	APP
Anxiety-like behavior	EGA4-1					APP IGF1	IGF1	APP
Stimulation of chondrocytes	EGA4-1			BMP2		IGF1	IGF1	
Differentiation of stromal cell lines	EGA4-1			BMP2		IGF1	IGF1	
Area of cells	EGA4-1					APP IGF1 TCF7L2	IGF1	APP
Growth of metatarsal bone	EGA4-1			BMP2		IGF1	GRN IGF1	
Catabolism of D-glucose	EGA1-1	MYC	MYC	MYC		MYC		

G1 phase of lung cell lines	EGA1-1	CCNA1 MYC	MYC	MYC	CSNK2A1 MYC
Arrest in cell cycle progression of B lymphocytes	EGA1-1	MYC	MYC	MYC	MYC PCGF2
Delay in cell cycle progression of fibroblast cell lines	EGA1-1	MYC	MYC	MYC	MYC PRMT1
Entry into mitosis of fibroblast cell lines	EGA1-1	CCNA1 MYC	MYC	MYC	MYC
Rearrangement of chromosomes	EGA1-1	MYC	MYC	MYC	MYC PRMT1
Delay in cell cycle progression	EGA1-1	MYC	MYC	MYC	MYC PRMT1
Arrest in proliferation of lung cell lines	EGA1-1	MYC	MYC	MYC	MYC PRMT1
Transcription of mRNA	EGA1-1	MYC	MYC	LDLR MYC	LDLR MYC
Synthesis of rRNA	EGA1-1	MYC	MYC	MYC	MYC
Depletion of ATP	EGA1-1	MYC	MYC	MYC	MYC
Incorporation of octanoic acid	EGA1-1	MYC	MYC	MYC	MYC
Ploidy of keratinocytes	EGA1-1	MYC	MYC	MYC	MYC
Cloning of melanoma cell lines	EGA1-1	MYC	MYC	MYC	MYC
Gene amplification of B-lymphocyte derived cell lines	EGA1-1	MYC	MYC	MYC	MYC
Size of lymphatic sinus	EGA1-1	MYC	MYC	MYC	MYC
Entrance of DNA	EGA1-1	MYC	MYC	MYC	MYC
Polyploidization of B-lymphocyte derived cell lines	EGA1-1	MYC	MYC	MYC	MYC
Formation of extrachromosomal cores	EGA1-1	MYC	MYC	MYC	MYC
Flow of lymphatic fluid	EGA1-1	MYC	MYC	MYC	MYC
Quantity of lymphatic sinus	EGA1-1	MYC	MYC	MYC	MYC
Initiation of differentiation of epidermal cells	EGA1-1	MYC	MYC	MYC	MYC
Replicative senescence of ovarian cancer cell lines	EGA1-1	MYC	MYC	MYC	MYC
Killing of B cell hybridoma cells	EGA1-1	MYC	MYC	MYC	MYC
Formation of replication fork	EGA1-1	MYC	MYC	MYC	MYC
Arrest in G1/S phase transition of endothelial cell lines	EGA1-1	MYC	MYC	MYC	MYC
Cell division of lymphoma cell lines	EGA1-1	MYC	MYC	MYC	MYC
Elimination of leukemia cell lines	EGA1-1	MYC	MYC	MYC	MYC
Immortalization of leukocyte cell lines	EGA1-1	MYC	MYC	MYC	MYC
Arrest in G1/S phase transition of breast cell lines	EGA1-1	MYC	MYC	MYC	MYC
Accumulation of glutamine	EGA1-1	MYC	MYC	MYC	MYC
Catabolism of glutamine	EGA1-1	MYC	MYC	MYC	MYC
Differentiation of cholangiocarcinoma cell lines	EGA1-1	MYC	MYC	MYC	MYC
Arrest in G2/M phase transition of keratinocytes	EGA1-1	MYC	MYC	MYC	MYC
Senescence of B lymphocytes	EGA1-1	MYC	MYC	MYC	MYC

Beta-oxidation of octanoic acid	EGA1-1		MYC	MYC	MYC					MYC				
Expansion of pro-B lymphocytes	EGA1-1		MYC	MYC	MYC					MYC				
Mid-G1 phase	EGA1-1		MYC	MYC	MYC					MYC				
Termination of cell cycle progression of fibroblasts	EGA1-1		MYC	MYC	MYC					MYC				
Senescence of B-lymphoid cells	EGA1-1		MYC	MYC	MYC					MYC				
Killing of macrophage cancer cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Accumulation of colonocytes	EGA1-1		MYC	MYC	MYC					MYC				
Cell cycle progression of brain cancer cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Size of brain cancer cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Proliferation of lung cell lines	EGA1-1		MYC	MYC	MYC					MYC PRMT1				
Resorption of bone	EGA1-1	CXCR4		CXCR4	LDLR					LDLR				
Delay in initiation of differentiation of induced pluripotent stem cells	EGA1-1		MYC	MYC	MYC					MYC				
Deletion of chromosomes	EGA1-1		MYC	MYC	MYC					MYC				
Stimulation of embryonic cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Synthesis of acetyl-coenzyme A	EGA1-1		MYC	MYC	MYC					MYC				
Size of lymphoma cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Cell polarity formation of colorectal cancer cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Arrest in G1 phase of erythroblasts	EGA1-1		MYC	MYC	MYC					MYC				
Delay in cell cycle progression of epithelial cell lines	EGA1-1		MYC	MYC	MYC					MYC				
Poly(ADP-ribosyl)ation of protein	EGA1-1		MYC	MYC	MYC					MYC				
Development of organ of Corti	EGA1-1		MYC	MYC	MYC					MYC				
Homing of inflammatory leukocytes	EGA1-1		MYC	MYC	MYC					MYC				
Differentiation of sebocytes	EGA1-1		MYC	MYC	MYC					MYC				
Self-renewal of cells	EGA1-1		MYC	MYC	MYC					MYC PCGF2				
Cell viability of colorectal cancer cell lines	EGA2-1							ID2	BAX	PRMT1 DIS3 HMGB1	INSR			
Hydrolysis of nucleotide	EGA2-1					APAF1 TOP2A	EIF5			ARFGAP1 EIF5 HMGB1	SIRT1			
Formation of ribosome	EGA2-1					RPS14	RPS6			LAS1L RPS6				RPS6
Translation	EGA2-2						RPS6			HSPA5 RPS20 RPS6		HSPA5		RPS6 RPS7
Cell death of pheochromocytoma cell lines	EGA2-1					APAF1 RPS3			BAX GAPDH	GAPDH NPM1	GAPDH SIRT1			
Arrest in G2 phase of tumor cell lines	EGA2-1						RPS6			HLA-G LATS1 NFYA RASSF1	RPL7A			RPS6
Formation of ribosome	EGA2-2					RPS10	RPS6			RPS6 SGK1 RPS6				RPS6

Cell viability of endothelial cells	EGA2-2					GATA6 HSPA5	GATA6	HSPA5		HMOX1
Reorganization of cytoskeleton	EGA2-2		RPS6			RPS6			DSP	RPS6
Activation of hepatic stellate cells	EGA3-1				IL6	IL6 LGALS3	IL6 LEP	IL6		
Synthesis of purine nucleotide	EGA3-1				IL6	IL6 PINK1	HSPD1 IL6	IL6		
Proliferation of multilineage progenitor cells	EGA3-1				IL6	IL6	CFL1 IL6	IL6		
Autophagy	EGA3-1				IL6	ACLY CEBPB GPR37 IL6 PINK1 SCD XPO1	IL6 SCD	ACLY IL6 SCD		
Apoptosis of heart	EGA3-1				IL6	CAMK2D HSPE1 IL6 SCD	HSPD1 IL6 LEP SCD	IL6 SCD		
Apoptosis of leukocyte cell lines	EGA3-1				IL6	CEBPB IL6 LGALS3	IL6 TNFRSF1A	IL6		
Maturation of dendritic cells	EGA3-1				IL6	ELF3 IL6	HSPD1 IL6 LEP TNFRSF1A	IL6		
Apoptosis of hematopoietic cell lines	EGA3-1				IL6	CEBPB IL6 LGALS3	IL6 LEP TNFRSF1A	IL6		
Synthesis of ATP	EGA3-1				IL6	IL6 PINK1	HSPD1 IL6	IL6		
Oxidation of long chain fatty acid	EGA3-1				IL6	ACOX1 IL6 SCD	ACSL4 IL6 LEP SCD	IL6 SCD		
Osteoclastogenesis of leukocytes	EGA3-1				IL6	IL6	IL6 TNFRSF1A	IL6		
Quantity of germ cells	EGA3-1				IL6	GPR37 IL6 SHBG	IL6 LEP	IL6		
Cell death of hematopoietic cell lines	EGA3-1				IL6	CEBPB IL6 LGALS3	IL6 LEP TNFRSF1A	IL6		
Concentration of corticosterone	EGA3-1				IL6	IL6	IL6 LEP TNFRSF1A	IL6		
Cell death of kidney cancer cell lines	EGA3-1				IL6	IL6 SCD	IL6 SCD	IL6 SCD		
Lipolysis of lipid	EGA3-1				IL6	IL6	IL6 LEP	IL6		
Quantity of breast cancer cell lines	EGA3-1				IL6 POU5F1	IL6 POU5F1	IL6 LEP	IL6		
Generation of reactive oxygen species	EGA3-1				IL6	IL6 LGALS3 PINK1	IL6 LEP	IL6		
Development of tumor cell lines	EGA3-1				IL6	CEBPB FLNA IL6	IL6	IL6		
Lipolysis	EGA3-1				IL6	IL6	IL6 LEP	IL6		
Cell death of myeloid cells	EGA3-1				IL6	CEBPB IL6 LGALS3	IL6 LEP TNFRSF1A	IL6		
Proliferation of antigen presenting cells	EGA3-1				IL6	IL6 LGALS3	IL6	IL6		
Quantity of anion	EGA3-1				IL6	IL6	IL6 LEP TNFRSF1A	IL6		
Osteoclastogenesis	EGA3-1				IL6	FLNA IL6	IL6 TNFRSF1A	IL6		
Apoptosis of granulocytes	EGA3-1				IL6	IL6	IL6 LEP	IL6		
Concentration of glutathione	EGA3-1				IL6	IL6 LGALS3	IL6 LEP	IL6		
Growth of organism	EGA3-1				IL6 POU5F1	ACOX1 IL6 POU5F1	CFL1 GRB10 IL6 LEP TNFRSF1A	IL6		
Expansion of myeloid cells	EGA3-1				IL6	IL6	IL6	IL6		
Apoptosis of myeloid cells	EGA3-1				IL6	CEBPB IL6 LGALS3	IL6 LEP TNFRSF1A	IL6		

Osteoclastogenesis of macrophages	EGA3-1	IL6	IL6	IL6 TNFRSF1A	IL6	
Differentiation of adipocytes	EGA3-1	IL6	CEBPB IL6	IL6 LEP	IL6	
Adipogenesis of adipocytes	EGA3-1	IL6	CEBPB IL6 SCD	IL6 SCD	IL6 SCD	
Differentiation of B lymphoblastoid cell lines	EGA3-1	IL6	IL6	IL6	IL6	
Function of gastrointestinal tract	EGA3-1	IL6	IL6	IL6 LEP	IL6	
Accumulation of anion	EGA3-1	IL6	IL6	IL6 TNFRSF1A	IL6	
Thrombopoiesis	EGA3-1	IL6	FLNA IL6	IL6	IL6	
Lipolysis of fatty acid	EGA3-1	IL6	IL6	IL6	IL6	
Expansion of myeloid progenitor cells	EGA3-1	IL6	IL6	IL6	IL6	
Stimulation of synovial cells	EGA3-1	IL6	IL6	IL6	IL6	
Recovery of hematopoietic cells	EGA3-1	IL6	IL6	IL6	IL6	
Stimulation of steroid	EGA3-1	IL6	IL6	IL6	IL6	
Quantity of nitrite	EGA3-1	IL6	IL6	IL6 TNFRSF1A	IL6	
Arrest in G1 phase of melanoma cell lines	EGA3-1	IL6	IL6	IL6	IL6	
Cell-cell contact of synovial cells	EGA3-1	IL6	IL6	IL6	IL6	
Invasion of intestinal cell lines	EGA3-1	IL6	IL6	IL6	IL6	
Function of gonad	EGA3-1	IL6	CEBPB IL6	IL6 LEP	IL6	
Induction of CD4+ T-lymphocytes	EGA3-1	IL6	IL6	IL6 LEP	IL6	
Transduction of cells	EGA3-1	IL6 POU5F1	IL6 POU5F1	IL6 LEP	IL6	
Fragmentation of genomic DNA	EGA3-1	IL6	IL6	IL6 LEP	IL6	
Expansion of granulocytes	EGA3-1	IL6	IL6	IL6	IL6	
Angiogenesis of brain	EGA3-1	IL6	IL6	IL6	IL6	
Stimulation of hepatoma cell lines	EGA3-1	IL6	IL6	IL6	IL6	
Color of bile	EGA3-1	IL6	IL6	IL6	IL6	
Activation of enteric neurons	EGA3-1	IL6	IL6	IL6	IL6	
Hydrolysis of fatty acid	EGA3-1	IL6	IL6	IL6	IL6	
Activation of adenohypophysis	EGA3-1	IL6	IL6	IL6	IL6	
Survival of hepatic stellate cells	EGA3-1	IL6	IL6	IL6 LEP	IL6	
Stimulation of prostaglandin	EGA3-1	IL6	IL6	IL6 LEP	IL6	
Binding of C/EBP binding site	EGA3-1	IL6	CEBPB IL6	IL6	IL6	
Activation-induced cell death of CD8+ T lymphocyte	EGA3-1	IL6	IL6	IL6	IL6	
Proliferation of microglia	EGA3-1	IL6	IL6 LGALS3	IL6	IL6	
Differentiation of Th22 cells	EGA3-1	IL6	IL6	IL6	IL6	
Fat body mass	EGA3-1	IL6	IL6	IL6 LEP	IL6	
Morphology of trabecula	EGA3-1	IL6	IL6	IL6	IL6	
Ovulation of ovary	EGA3-1	IL6	CEBPB IL6	IL6 LEP	IL6	
Development of peripheral blood leukocytes	EGA3-1	IL6	IL6	IL6	IL6	
Downregulation of norepinephrine	EGA3-1	IL6	IL6	IL6	IL6	
Cellular infiltration by inflammatory monocytes	EGA3-1	IL6	IL6	IL6	IL6	

Proliferation of plasma cells	EGA3-1			IL6	IL6	IL6	IL6	
Turnover of bone	EGA3-1			IL6	IL6	IL6 LEP	IL6	
Weakness of hindlimb	EGA3-1			IL6	IL6	IL6	IL6	
Regulation of regulatory T lymphocytes	EGA3-1			IL6	IL6	IL6	IL6	
Migration of colon carcinoma cells	EGA3-1			IL6	IL6	IL6	IL6	
Migration of tumor cells	EGA3-1			IL6	IL6 LGALS3	IL6 LEP	IL6	
Hydrolysis of lipid	EGA3-1			IL6	IL6 MTMR4 CEBPB	IL6 LEP TNFRSF1A	IL6	
Autophagy of cells	EGA3-1			IL6	GPR37 IL6 PINK1 SCD XPO1	IL6 SCD	IL6 SCD	
Release of carbohydrate	EGA3-1			IL6	IL6	IL6 LEP	IL6	
Activation of brain	EGA3-1			IL6	IL6	IL6 LEP	IL6	
Release of glycerol	EGA3-1			IL6	IL6	IL6 LEP	IL6	
Fatty acid metabolism	EGA4-1		BMP2		APOA1 APP FOXA1 IGF1 SLC25A13 VTN	DECR1 IGF1		APP
Quantity of neurites	EGA4-1		BMP2		APP IGF1	IGF1		APP
Cell viability of central nervous system cells	EGA4-1	HSPB8			APP IGF1 PSAP	IGF1		APP
Cellular infiltration by leukocytes	EGA4-1	SPP1	SPP1		APOA1 APP SPP1 TIMP3			APP SPP1
Limb development	EGA4-1		BMP2		APP IGF1	GRN IGF1		APP
Growth of limb	EGA4-1		BMP2		APP IGF1	GRN IGF1		APP
Fusion of vesicles	EGA4-1	SPP1	SPP1		APP SPP1			APP SPP1
Cell viability of brain cells	EGA4-1	HSPB8			APP IGF1	IGF1		APP
Cellular infiltration by blood cells	EGA4-1	SPP1	SPP1		APOA1 APP SPP1 TIMP3			APP SPP1
Quantity of filaments	EGA4-1	SPP1	SPP1		APP SPP1 VTN			APP SPP1
Quantity of actin filaments	EGA4-1	SPP1	SPP1		SPP1 VTN			SPP1
Cellular infiltration	EGA4-1	SPP1	SPP1		APOA1 APP SPP1 TIMP3			APP SPP1
Binding of endothelial cells	EGA4-1	SPP1	SPP1		APP SPP1 TIMP3 VTN			APP SPP1
Transport of metal	EGA4-1		BMP2		APP IGF1	IGF1		APP
Quantity of brain cells	EGA4-1	HSPB8			APP IGF1 PSAP	IGF1		APP
Steroid metabolism	EGA4-1		BMP2		APOA1 APP CYP51A1 FOXA1 HNF1B IGF1	CYP51A1 IGF1		APP
Neurogenesis of hippocampus	EGA4-1	HSPB8			APP IGF1	IGF1		APP
Survival of osteoclasts	EGA4-1	SPP1	BMP2 SPP1		SPP1			SPP1
Morphology of cellular protrusions	EGA4-1		BMP2		APP FOXA1 IGF1	GRN IGF1		APP
Morphology of neurons	EGA4-1		BMP2		APP FOXA1 IGF1 PSAP	GRN IGF1		APP

Attachment of connective tissue cells	EGA4-1		SPP1		BMP2 SPP1	SPP1		SPP1
Quantity of neuroblasts	EGA4-1		WNT7A		WNT7A	APP		APP
Proliferation of cerebral cortex cells	EGA4-1		WNT7A		BMP2 WNT7A	IGF1	IGF1	
Damage of tumor cell lines	EGA4-1		SPP1		SPP1	APP SPP1		APP SPP1
Proliferation of hippocampal cells	EGA4-1		WNT7A		WNT7A	IGF1	IGF1	
Adhesion of smooth muscle cells	EGA4-1		SPP1		SPP1	APP SPP1 VTN		APP SPP1
Calcification of cells	EGA4-1		SPP1		BMP2 SPP1	SPP1		SPP1
Myelination of central nervous system	EGA1-1	CXCR4	MYC	CXCR4 MYC	MYC	MYC PRMT1 SLC17A5		
Entry into cell cycle progression of fibroblast cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Entry into S phase of epithelial cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Size of hepatocytes	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Cloning of cells	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
G1 phase of fibroblast cell lines	EGA1-1	CCND1	CCNA1 CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 CSNK2A1 MYC		
Apoptosis of squamous cell carcinoma cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 CSNK2A1 MYC		
Stimulation of fibroblast cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Colony survival of tumor cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1 CSNK2A1		
Repair of cervical cancer cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
G1 phase of kidney cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Size of tumor cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Accumulation of tumor cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
Cell survival of tumor cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1 CSNK2A1 PRMT1		
Proliferation of synovial fibroblasts	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
G1 phase of uterine cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
Mitosis of Schwann cells	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
Entry into S phase of melanoma cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
Proliferation of photoreceptors	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
Delay in G1/S phase transition of chondrocytes	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1		
Maturation of lymphatic system cells	EGA1-1	CCND1 CXCR4	CCND1 MYC	CCND1 CXCR4 MYC	CCND1 MYC	CCND1 MYC		
Activation of mitochondria	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Arrest in G2/M phase transition	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		
Entry into S phase of fibroblasts	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC		

Interphase of melanoma cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
Morphology of mitotic spindle	EGA1-1	CCND1	CCND1 TPX2	CCND1	CCND1	CCND1 TPX2
Entry into S phase of fibroblast cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
DNA damage response of colorectal cancer cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Reactivation of fibroblasts	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Entry into S phase of intestinal cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Initiation of alveolization	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Arrest in G0/G1 phase transition of endothelial cells	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Accumulation of skin cancer cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Radioresistance of hepatoma cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Cloning of fibroblast cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Arrest in G0/G1 phase transition of rhabdoid cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Radioresistance of cervical cancer cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Arrest in G1 phase of embryonic cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
Arrest in interphase of kidney cell lines	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
Mass of mitochondria	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
G1 phase of fibroblasts	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
Size of lymphatic system cells	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
Maturation of lymphocytes	EGA1-1	CXCR4	MYC	CXCR4 MYC	MYC	MYC
Colony survival of lymphoma cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Homologous recombination repair of cervical cancer cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Arrest in cell cycle progression of hepatocytes	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Outgrowth of ovarian cancer cell lines	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Cell cycle progression of skeletal muscle satellite cells	EGA1-1	CCND1	CCND1	CCND1	CCND1	CCND1
Initiation of S phase	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC
Expansion of hematopoietic progenitor cells	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC PCGF2
Meiotic nondisjunction	EGA1-1	CCND1	CCND1 MYC	CCND1 MYC	CCND1 MYC	CCND1 MYC

G2/M phase	EGA2-1			EP300	RPS6			HLA-G LATS1 NFYA NPM1 PPP5C PTPN11 RAD17 RASSF1 RPS6 SGK1 UBQLN2	RPL7A		RPS6
Cell viability of breast cancer cell lines	EGA2-1		YBX1	EP300		ID2		DPH5 PLD2 RRM1 YBX1	RRM1 YBX1		
Synthesis of protein	EGA2-2			RPS10	RPS6			HSPA5 RPS20 RPS6		HSPA5	RPS6 RPS7
Differentiation of embryonic tissue	EGA2-1			RARG		ID2	BAX	CHCHD2 HNF4A PTPN11 RARG ROCK1 SGK1	TFAP2C		
Cell death of colorectal cancer cell lines	EGA2-1		DTYMK	APAF1 EP300			BAX	SMC1A TXNRD1 GAPDH	SIRT1		
Cell proliferation of carcinoma cell lines	EGA2-1			APAF1 EP300 RARG		PDGFA	BAX GAPDH	HMGB1 PTPN11 RARG RASSF1 SMC1A TIA1	GAPDH		
Cell death of central nervous system cells	EGA2-1			APAF1 EP300 RPS3	CDK6		BAX GAPDH	GAPDH HMGB1 NMNAT2 NPM1 ROCK1 SGK1	GAPDH SIRT1		
Cell death of melanoma cell lines	EGA2-1		YBX1		RPL27A TUFM		BAX	CUL2 DDX41 EMG1 PPP1R10 RASSF1 YBX1	YBX1		
G2 phase of tumor cell lines	EGA2-1				RPS6		BAX	HLA-G LATS1 NFYA NPM1 RAD17 RASSF1 RPS6 SGK1	RPL7A		RPS6
Size of dendritic trees	EGA2-1			RPS14	RPS6		BAX	RPS6 ACIN1			RPS6
Arrest in G1 phase	EGA2-1			EP300	RPS6			ARHGAP11A LAS1L NFYA RAD17 RASSF1 RPS6 TFRC	PPARGC1B RPL7A SIRT1		RPS6
Arrest in G1 phase of tumor cell lines	EGA2-1			EP300	RPS6			ACIN1 ARHGAP11A LAS1L NFYA RAD17 RASSF1 RPS6 TFRC	RPL7A		RPS6

Arrest in interphase of tumor cell lines	EGA2-1			EP300	RPS6			ACIN1 ARHGAP11A CYP1B1 HLA-G LAS1L LATS1 NFYA RAD17 RASSF1 RPS6 SGK1 TFRC	CYP1B1 RPL7A		RPS6
Arrest in G1 phase of lung cancer cell lines	EGA2-1			EP300	RPS6			RASSF1 RPS6 E2F5 HLA-G LATS1 NFYA PTPN11 RAD17 RASSF1 RPS6 SGK1 UBQLN2	RPL7A		RPS6
Arrest in G2 phase	EGA2-1			TOP2A	RPS6			ACIN1 ARHGAP11A CYP1B1 DYRK1B E2F5 HLA-G LAS1L LATS1 NFYA PTPN11 RAD17 RASSF1 RPS6 SGK1 SMC1A TFRC UBQLN2	CYP1B1 PPARGC1B RPL7A SIRT1		RPS6
Arrest in interphase	EGA2-1			EP300 TOP2A	RPS6						
Transport of steroid	EGA3-1					MSN	IL6	IL6 SCD SHBG	IL6 LEP SCD	IL6 SCD	
Orientation of cells	EGA3-1					MSN	IL6	IL6	CFL1 IL6 LEP	IL6	
Metabolism of carbohydrate	EGA4-1	SPP1	BMP2 SPP1					APOA1 APP DUSP6 IGF1 SLC37A4 SPP1 TCF7L2	IGF1	APP SPP1	
Synthesis of carbohydrate	EGA4-1	SPP1	BMP2 SPP1					APOA1 DUSP6 IGF1 SLC37A4 SPP1 TCF7L2	IGF1	SPP1	
Activation of blood cells	EGA4-1	HSPB8 SPP1	SPP1					APOA1 APP IGF1 SPP1 VTN	GRN IGF1	APP SPP1	
Differentiation of central nervous system cells	EGA4-1	WNT7A	BMP2 WNT7A					APP IGF1 VTN	IGF1	APP	
Cell movement of hepatoma cell lines	EGA4-1	SPP1	SPP1					IGF1 SPP1 TCF7L2	IGF1	SPP1	
Activation of myeloid cells	EGA4-1	SPP1	SPP1					APP IGF1 SPP1 VTN	GRN IGF1	APP SPP1	

Stimulation of cells	EGA4-1	SPP1	BMP2 SPP1	APOA1 APP HNF1B IGF1 PSAP SPP1	IGF1	APP SPP1
Differentiation of brain cells	EGA4-1	WNT7A	BMP2 WNT7A	APP IGF1 VTN	IGF1	APP
Release of metal	EGA4-1	SPP1	BMP2 SPP1	APP IGF1 SPP1	IGF1	APP SPP1
Quantity of bone cells	EGA4-1	SPP1	SPP1	IGF1 SPP1	IGF1	SPP1
Cell movement of leukocytes	EGA4-1	SPP1	SPP1	APOA1 APP SPP1 TIMP3 VTN	GRN	APP SPP1
Cell movement of blood cells	EGA4-1	SPP1	BMP2 SPP1	APOA1 APP IGF1 SPP1 TIMP3 VTN	GRN IGF1	APP SPP1
Cell movement of endothelial cells	EGA4-1	SPP1	BMP2 SPP1	IGF1 SPP1 TIMP3 VTN	GRN IGF1	SPP1
Quantity of lymphocytes	EGA4-1	SPP1	PSMB9 SPP1	APOA1 APP IGF1 PSAP SPP1	IGF1	APP SPP1
Quantity of connective tissue cells	EGA4-1	SPP1	SPP1	IGF1 SPP1	IGF1	SPP1
Phosphorylation of protein	EGA4-1	SPP1	SPP1	APOA1 APP IGF1 PSAP SPP1	IGF1	APP SPP1
Quantity of lymphatic system cells	EGA4-1	SPP1	PSMB9 SPP1	APOA1 APP IGF1 PSAP SPP1	IGF1	APP SPP1
Chemotaxis of myeloid cells	EGA4-1	SPP1	SPP1	APOA1 APP SPP1 VTN	GRN	APP SPP1
Tyrosine phosphorylation of protein	EGA4-1	SPP1	SPP1	APP IGF1 PSAP SPP1	IGF1	APP SPP1
Cell movement of myeloid cells	EGA4-1	SPP1	SPP1	APOA1 APP SPP1 TIMP3 VTN	GRN	APP SPP1
Cell viability of connective tissue cells	EGA4-1	PDCD4 SPP1	BMP2 SPP1	APP IGF1 PDCD4 SPP1	IGF1 PDCD4	APP SPP1
Quantity of mononuclear leukocytes	EGA4-1	SPP1	PSMB9 SPP1	APOA1 APP IGF1 PSAP SPP1	IGF1	APP SPP1
Binding of fibroblast cell lines	EGA4-1	SPP1	SPP1	IGF1 SPP1	IGF1	SPP1
Cell movement of epithelial cell lines	EGA4-1	SPP1	SPP1	APOA1 APP IGF1 SPP1 VTN	IGF1	APP SPP1
Quantity of antigen presenting cells	EGA4-1	SPP1	SPP1	APP IGF1 SPP1	IGF1	APP SPP1
Colony formation of breast cancer cell lines	EGA4-1	SPP1	SPP1	DUSP6 SPP1	GRN	SPP1
Proliferation of brain cells	EGA4-1	WNT7A	BMP2 WNT7A	APP IGF1 VTN	IGF1	APP
Morphology of muscle	EGA4-1	HSPB8 SPP1 WNT7A	SPP1 WNT7A	APP IGF1 SPP1	GRN IGF1	APP SPP1
Mass of skeletal muscle	EGA4-1	SPP1	SPP1	IGF1 SPP1	IGF1	SPP1

Morphology of vessel	EGA4-1	SPP1	SPP1					APP HNF1B IGF1 SPP1 VTN	IGF1	APP SPP1		
Migration of multiple myeloma cells	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Morphology of bone	EGA4-1	SPP1	BMP2 SPP1					APP IGF1 SPP1	IGF1	APP SPP1		
Morphology of blood vessel	EGA4-1	SPP1	SPP1					APP IGF1 SPP1 VTN	IGF1	APP SPP1		
Diameter of cells	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Size of bone	EGA4-1	SPP1	BMP2 SPP1					APP IGF1 SPP1	IGF1	APP SPP1		
Mass of extensor muscle	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Diameter of myofiber	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Activation of osteoblasts	EGA4-1	SPP1	BMP2 SPP1					IGF1 SPP1	IGF1	SPP1		
Movement of endocrine cell lines	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Healing of epithelial tissue	EGA4-1	SPP1	SPP1					SPP1	GRN	SPP1		
Binding of fibroblasts	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Morphology of muscle cells	EGA4-1	HSPB8 SPP1 WNT7A	SPP1 WNT7A					APP IGF1 SPP1	GRN IGF1	APP SPP1		
Cell viability of muscle cells	EGA4-1	HSPB8	BMP2					APP IGF1	IGF1	APP		
Length of muscle cells	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
Morphology of skeletal muscle	EGA4-1	SPP1	SPP1					IGF1 SPP1	IGF1	SPP1		
G1 phase of tumor cell lines	EGA2-1				EP300	CDK6 RPS6		BAX	ACIN1 ARHGAP11A DYRK1B LAS1L NFYA RAD17 RASSF1 RPS6 TFRC	INSR RPL7A		RPS6
Cell death of sarcoma cell lines	EGA2-1			YBX1	HAT1 RRP1B TOP2A	CDK6		BAX	PPP5C YBX1	YBX1		
Synthesis of protein	EGA2-1			H2AFZ YBX1	EIF3H RPS14 RPS3 RPS9	EIF5 RPS6	HNRNPK		ALDH3A1 EIF4G1 EIF5 METAP2 MKRN1 NPM1 PTPN11 RASSF1 RPS6 YBX1	INSR PPARGC1B YBX1		RPS6
Translation	EGA2-1			YBX1	RPS3 RPS9	RPS6	HNRNPK		EIF4G1 RPS6 YBX1	YBX1		RPS6