Table S36 - IPA EGA4 upstream regulators targets in affected sub-group biological functions

		Upstream Regulators				
Function	Sub-Group	ERBB2	ELF3	ACOX1	TCF7L2	FN1
Proliferation of neuronal cells	M-1	AKT1, E2F1, EGR1, ESR2, ETV5, IGF1R, JAG1, MAP1B, PFN2, PSEN1, SMAD2, THBS1			BMP4, JAG1, NINJ2, SEMA4D, SLC12A2	
Development of neurons	M-1	AKT1, CHRNE, CTNNB1, EGR1, HSPB1, MAP1B, PFN2, PSEN1, SMAD3, THBS1			BMP4, DOCK10, HIPK2, MEN1, SEMA4D, SLC12A2	
Development of body axis	M-1	AKT1, ALOX15, CDCA7L, CDON, CTNNB1, EGR1, IGF1R, ITGA5, JAG1, MAP1B, PSEN1, SMAD2, THBS1			BMP4, JAG1, YAP1	
Formation of plasma membrane	M-1	CHRNE, CSF1R, CTNNB1, THBS1			HIPK2, MEN1, SEMA4D, SLC12A2	
Dendritic growth/branching	M-1	AKT1, CTNNB1, PFN2, PSEN1			DOCK10, SEMA4D	
Ubiquitination	M-1	CUL1				UBE2H
Shape change of neurites	M-1	AKT1, CTNNB1, MAP1B, PFN2, PSEN1			DOCK10, SEMA4D	
Cognition	M-1	AKT1, EGR1, ESR2, PSEN1			TP63	
Assembly of intercellular junctions	M-1	CHRNE, CTNNB1, THBS1			HIPK2, MEN1, SEMA4D, SLC12A2	
Development of gap junctions	M-1	CHRNE, CTNNB1, THBS1			HIPK2, MEN1, SEMA4D, SLC12A2	
Shape change of neurons	M-1	AKT1, CTNNB1, MAP1B, PFN2, PSEN1			DOCK10, SEMA4D	
Developmental process of synapse	M-1	CHRNE, CTNNB1, THBS1			HIPK2, MEN1, SEMA4D, SLC12A2	
Formation of intercellular junctions	M-1	CHRNE, CSF1R, CTNNB1, THBS1			HIPK2, MEN1, SEMA4D, SLC12A2	
Cytostasis	M-1	CCND3, CDCA8, CRADD, CTNNB1, CUL1, EGR1, HAS2, IGF1R, JAG1, SMAD2, SMAD3, ZEB1			BMP4, JAG1, TP63, YAP1	
Formation of cell-cell contacts	M-1	CHRNE, CSF1R, CTNNB1, THBS1			HIPK2, MEN1, SEMA4D, SLC12A2	
Migration of neurons	M-1	CTNNB1, IGF1R, MAP1B, PSEN1			BMP4, NDE1, SEMA4D, SLC12A2	
Proliferation of lymphatic system cells	M-2					
Phosphorylation of L-amino acid	M-1	AKT1, IGF1R			SRPK1	
Migration of smooth muscle cells	M-2					
Formation of brain	M-1	CDCA7L, CTNNB1, EGR1, MAP1B, PSEN1, THBS1			YAP1	
Growth of dendrites	M-1	AKT1			SEMA4D	
Proliferation of immune cells	M-2					
Proliferation of lymphocytes	M-2					
Phosphorylation of L-serine	M-1	AKT1			SRPK1	
Adhesion of vascular endothelial cells	M-3	CD36, TGFBI				ITGA4, LGALS8
Cytostasis of tumor cell lines	M-1	CCND3, CDCA8, CTNNB1, EGR1, IGF1R, JAG1, SMAD2, SMAD3			BMP4, JAG1, TP63	
Long term depression of hippocampal CA1 region	M-1					
Differentiation of vasculature	M-1	JAG1			BMP4, JAG1	
Cell proliferation of T lymphocytes	M-2					
Formation of chromosome components	M-1	SYCP3				
Accumulation of phosphoinositide	M-1					
NK cell development	M-2					

Interaction of tumor cell lines	M-1	AKT1, ALOX15, ANXA2, CTNNB1, E2F1, EGR1, ETV5, HAS2, IGF1R, IGFBP3, ITGA5, SMAD3, THBS1, ZEB1	PARVB, PI4KB, TP63, YAP1	
Formation of actin filaments	M-2			
Production of lymphocytes	M-2			
Interaction of tumor cell lines	M-3	ADAM12, CD36, PRL, VCAN		ITGA4, LGALS8
Differentiation of carcinoma cell lines	M-1	AKT1, EGR1	TP63	
Differentiation of mesenchymal cells	M-1	CTNNB1, SMAD3, THBS1	BMP4, MEN1	
Remodeling of cytoskeleton	M-1	AKT1, CSF1R		
Cell movement of dermal cells	M-2			
Maturation of lung	M-1		NCOR2	
Function of intercellular junctions	M-1	PSEN1	MTMR2	
Long term depression of CA1 neuron	M-1			
Chemotaxis of fibroblasts	M-2			
Quantity of vesicles	M-1	EGR1	HIPK2, SYTL2	
Formation of centriole	M-1	CUL1		
Secretion of mucus	M-2			
Density of neurons	M-1	PSEN1	DOCK10, MTMR2, SEMA4D	
Quantity of dendritic spines	M-1	PFN2		
Maturation of cells	M-3	CD36, PRL		
Synthesis of eicosanoid	M-2			
Quantity of endocrine cells	M-1	AKT1, CCND3, CSF1R, CTNNB1, E2F1, IGF1R	MEN1	
Accumulation of phospholipid	M-1			
Concentration of acylglycerol	M-2			
Formation of actin filaments	M-1	AKT1, JAG1, TPM1	BMP4, JAG1, SEMA4D, TP63	
Differentiation of mesenchymal stem cells	M-1	CTNNB1, SMAD3, THBS1	BMP4	
Differentiation of germ cell tumor cell lines	M-1	AKT1, EGR1	TP63	
Cell movement of keratinocytes	M-2			
Remodeling of actin cytoskeleton	M-1	AKT1		
Analgesia	M-2			
Adhesion of vascular endothelial cells	M-2			
Migration of central nervous system cells	M-1	IGF1R	BMP4, NDE1, SLC12A2	
Invasion of squamous cell carcinoma cell lines	M-2			
Contact growth inhibition	M-1	CCND3, CTNNB1, EGR1, HAS2, IGF1R, SMAD2, SMAD3, ZEB1	BMP4, YAP1	
NK cell proliferation	M-2			
Cell movement of fibroblasts	M-1	AKT1, CTNNB1, SMAD3, THBS1	ENPP2	
Cell cycle progression of tumor cell lines	M-1	AKT1, AREG, CCND3, E2F1, EGR1, IGF1R, IGFBP3, PSEN1, SMAD3, SPDEF, ZEB1	BMP4, TP63, YAP1	
Adhesion of breast cancer cell lines	M-1	IGF1R, THBS1, ZEB1	PARVB, PI4KB	
Recombination	M-1	AKT1, CHD4, RPA2, SYCP3	NDE1	
Quantity of interneurons	M-1	ESR2		
Migration of brain cells	M-1	IGF1R	BMP4, NDE1, SLC12A2	
Proliferation of lymphatic system cells	M-3	CD36, MYBL1, PRL		
Contact growth inhibition of tumor cell lines	M-1	CCND3, CTNNB1, EGR1, IGF1R, SMAD2, SMAD3	BMP4	
Apoptosis of synovial cells	M-2			
Development of neurons	M-3			
Synthesis of prostaglandin	M-2			
Cell death of germ cells	M-1	EGR1, IGFBP3	SLC12A2	
Cell death of lymphoma cell lines	M-2			
Pathfinding	M-1			
Pathfinding of neurons	M-1			

Cell cycle progression of fibroblast cell lines	M-1	E2F1	TP63	
Adhesion of epithelial cells	M-2			
Cell movement of embryonic cells	M-3	FGF9, VCAN		ITGA4
Cell movement of brain cells	M-1	IGF1R	BMP4, NDE1, SLC12A2	
Cytostasis of breast cancer cell lines	M-1	CTNNB1, IGF1R, SMAD2, SMAD3	TP63	
Destabilization of microtubules	M-1	EGR1		
Proliferation of leukemia cell lines	M-1	AKT1, CTNNB1, E2F1, EGR1, IGF1R, IGFBP3, PTPRK	BMP4	
Respiratory system development	M-1	CTNNB1, ESR2, ETV5, THBS1	BMP4, NCOR2	
Aggregation of tumor cell lines	M-1	CTNNB1, IGF1R		
Frequency of T lymphocytes	M-2			
Activation of endothelial cells	M-2			
Concentration of phosphatidic acid	M-2			
Cell movement of central nervous system cells	M-1	IGF1R	BMP4, NDE1, SLC12A2	
Concentration of phospholipid	M-2			
Cytostasis of prostate cancer cell lines	M-1	SMAD2, SMAD3		
Cell death of gonadal cells	M-1	AKT1, CTNNB1, EGR1, IGFBP3, SMAD2, THBS1	SLC12A2	
Interaction of B lymphocytes	M-2			
Migration of embryonic cells	M-3	FGF9, VCAN		ITGA4
Permeability of vascular system	M-1	CTNNB1, THBS1		
Incorporation of amino acids	M-1	IGFBP3		
Synthesis of steroid	M-2			
Migration of ovarian cancer cell lines	M-1	AKT1, ESR2, HAS2		
Density of dendritic spines	M-1	PSEN1	DOCK10	
Contact growth inhibition of breast cancer cell lines	M-1	CTNNB1, IGF1R, SMAD2, SMAD3		
Clustering of vesicles	M-1		SYTL2	
Proliferation of synovial cells	M-2			
Cell movement of lymphoma cell lines	M-3			ITGA4
Proliferation of lymphocytes	M-3	CD36, MYBL1, PRL		
Quantity of amino acids	M-2			
Secretion of aldosterone	M-2			
Retraction of neurites	M-1	MAP1B, PSEN1	SEMA4D	
Differentiation of hematopoietic progenitor cells	M-1	CDKN2B, CSF1R, CTNNB1, E2F1, EGR1, JAG1	BMP4, EPAS1, JAG1	
Breakage of double-stranded DNA	M-1			
Differentiation of hematopoietic cells	M-1	CDKN2B, CSF1R, CTNNB1, E2F1, EGR1, JAG1	BMP4, EPAS1, JAG1	
Interphase of cervical cancer cell lines	M-1	ANXA2, CTNNB1, PFKFB3, PSEN1		
Quantity of focal adhesions	M-1	CTNNB1, SMAD3		
Recombination of chromosomes	M-1	AKT1, SYCP3		
Senescence of epithelial cell lines	M-1	CTNNB1, ZEB1	BMP4	
Expansion of cells	M-3	MYBL1		
Release of nitric oxide	M-2			
Differentiation of skeletal muscle cells	M-1	AREG, CDON	BMP4	
Cell death of superior cervical ganglion neurons	M-1	AKT1, HSPB1	HIPK2	
Development of body axis	M-2			
Adhesion of lymphoma cell lines	M-3	VCAN		ITGA4
Development of regulatory T lymphocytes	M-2			
Interaction of lymphocytes	M-2			

Movement of vascular endothelial cells	M-3	CD36, TGFBI		
Binding of carcinoma cell lines	M-1	AKT1, ITGA5, THBS1, ZEB1	TP63	
Relaxation of muscle	M-1	CDON, THBS1, TPM1		
Remodeling of blood vessel	M-1			
Quantity of granulocytes	M-3	CD36, PRL		
Cell-cell adhesion	M-1	ALOX15, CTNNB1, PSEN1, ZEB1	PI4KB, TP63	
Disruption of actin cytoskeleton	M-1	IGF1R		
Adhesion of squamous cell carcinoma cell lines	M-1	AKT1, ITGA5, THBS1, ZEB1	TP63	
Concentration of choline-phospholipid	M-2			
Cell proliferation of T lymphocytes	M-3	CD36, PRL		
Secretion of steroid hormone	M-2			
Quantity of pulmonary alveolus	M-1	ESR2		
Apoptosis of hepatoma cell lines	M-2			
Anxiety	M-3	FGF9		
Binding of lymphocytes	M-2			
Cell-cell contact of breast cancer cell lines	M-1	ZEB1	PI4KB	
Cytostasis of carcinoma cell lines	M-2			
Proliferation of prostate cancer cell lines	M-3	PRL		
Cell-cell adhesion of carcinoma cell lines	M-1	ZEB1	TP63	
Response of fibroblast cell lines	M-1	PFKFB3, PSEN1		
Response of CD4+ T-lymphocytes	M-2			
Contraction of muscle cells	M-2			
Production of protein	M-2			
Production of cytokine	M-2			
Cell death of blood cells	M-3	PCNA, PRL		ITGA4, LGALS8, PCNA
Cell movement of squamous cell carcinoma cell lines	M-3	AURKA		ITGA4
Response of splenocytes	M-2			
Binding of leukocytes	M-3	CD36, PRL		ITGA4
Fragmentation of Golgi apparatus	M-2			
Cell death of fibroblasts	M-2			
Necrosis of prostate cancer cell lines	M-2			
Branching of fibroblast cell lines	M-1	PSEN1		
Aggregation of melanosomes	M-1		SYTL2	
Quantity of alveolar epithelium	M-1	ESR2		
Contraction of cardiac muscle	M-2			
Size of dendritic spines	M-1		DOCK10	
Arrest in G2 phase of skin cancer cell lines	M-1	CTNNB1		
Mitosis of smooth muscle cells	M-1		BMP4	
Patterning of vessel	M-1	CTNNB1		
Metabolism by thymocytes	M-1	EGR1		
Assembly of mural cells	M-1	SMAD2, SMAD3		
Quantity of tubulovesicular structures	M-1			
Arrest in proliferation of cells	M-1	AKT1, CCND3, CDKN2B, CTNNB1, E2F1, EGR1, IGF1R, SMAD2	BMP4, HIPK2, TP63	
Morphology of dendritic spines	M-1	PFN2, PSEN1	DOCK10	
Interphase of kidney cell lines	M-1	ALOX15, ANXA2, CCND3, E2F1		
Development of axial mesendoderm	M-1	SMAD2, SMAD3		
Enlargement of third cerebral ventricle	M-1	PSEN1		
Cell-cell adhesion of breast cell lines	M-1	CTNNB1		
Volume of bone	M-1	IGFBP5, MFAP2	SMURF1	

Clustering of melanosomes	M-1		SYTL2
Synthesis of phosphtidylinositol 5-phosphate	M-1		MTMR2
Endothelial barrier function of vascular endothelial cells	M-1	ANXA2, CRADD	
Function of endothelial cells	M-1	IGF1R, ITGA5	
Function of synapse	M-1	PSEN1	MTMR2
Formation of somites	M-1		
Quantity of hippocampal neurons	M-1	PSEN1	
Remodeling of basement membrane	M-1	HAS2	
Stereotypy	M-1		
Function of excitatory synapses	M-1		MTMR2
Morphology of right ventricle	M-1		EPAS1
Conversion of arginine	M-1		
Pigmentation of retinal pigment epithelium	M-1	PSEN1	
Homologous pairing of chromosomes	M-1	SYCP3	
Migration of neocortical neurons	M-1		BMP4
Formation of microspikes	M-1	AKT1	
Morphology of nervous system	M-1	AKT1, CTNNB1, EGR1, ESR2, IGF1R, MAP1B, PFN2, PSEN1	ALDH1A2, BMP4, DOCK10, HIPK2, NDE1
Quantity of neurofibrillary tangles	M-1	PSEN1	
Synapsis	M-1	SYCP3	
Mineralization of bone marrow stromal cells	M-1	JAG1, PSEN1	JAG1
Clonal expansion of mononuclear phagocyte pogenitors	M-1	CSF1R	
Morphology of chromosomes	M-1	CHD4	MEN1
Morphogenesis of ciliary body	M-1	JAG1	JAG1
Patterning of embryo	M-1	CTNNB1, E2F1, PSEN1	ALDH1A2
Hippocampal learning	M-1		TP63
Shrinkage of cerebral cortex	M-1	PSEN1	
Arrest in cell cycle progression of mesothelioma cell lines	M-1		TP63
Cell-cell adhesion of kidney cell lines	M-1	CTNNB1	
Morphology of exocrine cells	M-1	CTNNB1, E2F1	
Conversion of choline-phospholipid	M-1		ENPP2
Development of extraembryonic ectoderm	M-1	CTNNB1	
Development of second branchial arch	M-1	PSEN1	
Binding of membrane rafts	M-1		
Formation of excitatory synapses	M-1		
Adhesion of hepatocytes	M-1	SMAD2, SMAD3	
Delay in growth of organism	M-1		
Response of fibroblasts	M-1	AKT1, THBS1	
Formation of occipital bone	M-1		
Fusion of insulin granule	M-1		
Survival of kidney cancer cell lines	M-1	IGF1R	
Survival of mononuclear phagocyte pogenitors	M-1	CSF1R	
Pathfinding of axons	M-1		
Gap junctional intercellular communication of neuronal progenitor cells	M-1		
Differentiation of hair cells	M-1	CTNNB1	
Volume of trabecular bone	M-1	IGFBP5, MFAP2	
Signaling of vascular smooth muscle cells	M-1	IGF1R, THBS1	
Penetration of microtubules	M-1		

Long term depression of collateral synapses	M-1		
Size of thyroid gland	M-1	AKT1, IGF1R	
Mitochondrial cell death of squamous cell carcinoma cell lines	M-1	AKT1	
Formation of coronary vessel	M-1	CDKN2B	ALDH1A2
Differentiation of bile duct	M-1	JAG1	JAG1
Rearrangement of cells	M-1	ETV5	
Homologous recombination of chromosomes	M-1	AKT1, SYCP3	
Arrest in cell cycle progression of sarcoma cell lines	M-1	IGF1R	YAP1
Abnormal morphology of chromosomes	M-1	CHD4	
Cell spreading of endothelial cells	M-2		
Length of absolute anatomical region	M-2		
Apoptosis of skin cancer cell lines	M-2		
Morphology of breast cancer cell lines	M-2		
Homing of helper T lymphocytes	M-2		
Anoikis of adenocarcinoma cell lines	M-2		
Polarization of decidual macrophages	M-2		
Inhibition of Th1 cells	M-2		
Myelination of Schwann cells	M-2		
Ploidy of epithelial cells	M-2		
Morphology of tumor cell lines	M-2		
Emigration of antigen presenting cells	M-2		
Release of blood cells	M-2		
Cell death of skin cancer cell lines	M-2		
Metabolism of adenosine	M-2		
Localization of cholesterol	M-2		
Induction of Th2 cells	M-2		
Inactivation of macrophages	M-2		
G1 phase of epidermal cells	M-2		
Mitogenesis of T lymphocytes	M-2		
Suppression of helper T lymphocytes	M-2		
Frequency of Th1 cells	M-2		
Re-epithelialization	M-2		
Morphogenesis of hair follicle	M-2		
Translocation of L-amino acid	M-2		
Loss of brain cells	M-2		
Writhing	M-2		
Epithelial-mesenchymal transition of colorectal cancer cell lines	M-2		
Beta-oxidation of very long chain fatty acid	M-2		
Length of colon	M-2		
Anoikis of intestinal cell lines	M-2		
Differentiation of M2c macrophages	M-2		
Apoptosis of intestinal cell lines	M-2		
Apoptosis of BMMC cells	M-2		
Regulation of osteoblasts	M-2		
Activation of lamellipodia	M-2		
Formation of colony forming unit osteoblasts	M-2		
Density of synaptic vesicles	M-2		
Formation of palate	M-2		
Cell viability of hippocampal neurons	M-2		
Priming of leukocyte cell lines	M-2		
Adhesion of synovial fibroblasts	M-2		

Proliferation of induced regulatory T-lymphocyte	M-2
Morphology of actin cytoskeleton	M-2
Synthesis of thromboxane B2	M-2
Arrest in proliferation of leukocytes	M-2
Activation of vascular endothelial tissue	M-2
Morphology of sarcomere	M-2
Morphology of Golgi apparatus	M-2
Morphology of brain cells	M-2
Production of mucus	M-2
Survival of plasmacytoid dendritic cells	M-2
Differentiation of macrophage-like cells	M-2
Differentiation of naive B cells	M-2
Outgrowth of breast cancer cell lines	M-2
Response of bronchial epithelial cells	M-2
Mitogenesis of leukocytes	M-2
Development of memory natural killer cells	M-2
Synthesis of genomic DNA	M-2
Onset of differentiation of cells	M-2
Injury of kidney cell lines	M-2
Arrest in proliferation of embryonic cell lines	M-2
Stimulation of synovial fibroblasts	M-2
Cell movement of Th2 cells	M-2
Beta-oxidation of lignoceric acid	M-2
G1/S phase transition of epidermal cells	M-2
Apoptosis of endometrial cancer cell lines	M-2
Development of aortic arch	M-2
Killing of Leishmania major	M-2
Quantity of homocysteine	M-2
Development of cerebral cortex	M-2
Fragmentation of nucleus	M-2
Suppression of bone marrow-derived dendritic cells	M-2
Movement of myeloma cell lines	M-2
Morphology of cerebral cortex cells	M-2
Proliferation of bronchial epithelial cells	M-2
Quantity of cellular inclusion bodies	M-2
G1 phase of keratinocytes	M-2
Response of lung cancer cell lines	M-2
Differentiation of Ab-secreting B cells	M-2
Co-stimulation of blood cells	M-2
Induction of PBMCs	M-2
Induction of naive T lymphocytes	M-2
Demethylation of DNA	M-2
Contraction of smooth muscle cells	M-2
Translocation of glutamine family amino acid	M-2
Cell movement of helper T lymphocytes	M-2
G1 phase of carcinoma cell lines	M-2
Re-epithelialization of skin	M-2
Cell movement of prostate cell lines	M-2

Polarization of macrophage cancer cell lines	M-2		
Differentiation of cytotoxic T cells	M-2		
Anoikis of prostate cancer cell lines	M-2		
Oversecretion of mucus	M-2		
Loss of cerebral cortex cells	M-2		
Induction of antigen presenting cells	M-2		
Development of artery	M-2		
Recruitment of protein	M-2		
Contact growth inhibition of kidney cancer cell lines	M-2		
Apoptosis of trophoblast cells	M-2		
Generation of monocyte-derived dendritic cells	M-2		
Proliferation of memory B cells	M-2		
Quantity of Staphylococcus aureus	M-2		
Sprouting of sensory neurons	M-2		
Differentiation of effector cytotoxic T lymphocytes	M-2		
Generation of Tr1 cells	M-2		
Formation of brain	M-3	PRL	
Breakage of double-stranded DNA	M-3	PCNA, PRL	PCNA
Cell-cell contact of tumor cell lines	M-3		LGALS8
Proliferation of mammary duct	M-3	PRL	
Chemotaxis of skin cell lines	M-3	CD36	
Quantity of cell-associated matrix	M-3	VCAN	
Proliferation of epiblast cells	M-3		
Association of DNA damage focus	M-3	PCNA	PCNA
Formation of airspace	M-3	FGF9	
Cell spreading of gonadal cell lines	M-3		ITGA4, LGALS8
Derepression of RNA	M-3		
Quantity of hibernating gland	M-3	ADAM12	
G2/M phase transition of fibroblast cell lines	M-3		
Proliferation of mammary alveolus	M-3	PRL	
Electrical resistance of breast cell lines	M-3	PRL	
Delay in mitosis of tumor cell lines	M-3	AURKA	
Delay in mitosis of cervical cancer cell lines	M-3	AURKA	
Assembly of central spindle	M-3	AURKA	
Synthesis of steroid hormone	M-3	FGF9, PRL	
Fusion of myoblasts	M-3	ADAM12	
Arrest in cell cycle progression of embryonic stem cell lines	M-3		
Maturation of oocytes	M-3		
Healing of gonadal cell lines	M-3		
Binding of hematopoietic progenitor cells	M-3	PRL	ITGA4
Removal of cystine	M-3	PRL	
Adhesion of bronchial epithelial cells	M-3		ITGA4
Mitogenesis of endometrial stromal cells	M-3	FGF9	
Budding of lobules of mammary gland	M-3	PRL	
Generation of actin filaments	M-3	PRL	
Nucleation of filaments	M-3		
Arrest in oogenesis	M-3		
Generation of membrane ruffles	M-3	PRL	
Development of epithelial bud	M-3	FGF9	
Regulation of granulosa cells	M-3	PRL	

Differentiation of reactive astrocytes	M-3	VCAN	
Incorporation of 15-(4-iodophenyl)-3-methylpentadecanoic acid	M-3	CD36	
Arrest in cell rolling of leukocytes	M-3		ITGA4
Development of cecum	M-3	FGF9	
Remyelination of posterior funiculus	M-3	PRL	
Regeneration of tibia	M-3	FGF9	
Binding of antigen presenting cells	M-3		ITGA4
Cell movement of gonadal cell lines	M-3	ADAM12	ITGA4, LGALS8
Delay in G1/S phase transition of prostate cancer cell lines	M-3		
Attachment of endometrial cancer cell lines	M-3	CD36	
Meiosis of germ cells	M-3	AURKA	
Acetylation of chromatin	M-3	PCNA	PCNA
Arrest in cleavage of embryo	M-3		
Clearance of Plasmodium	M-3	CD36	
Delay in initiation of cell spreading of gonadal cell lines	M-3		
Enlargement of prostate gland	M-3	PRL	
Differentiation of microvasculature	M-3	FGF9	
Adhesion of sarcoma cell lines	M-3	VCAN	ITGA4
Binding of cord blood cells	M-3		ITGA4
Micronucleation of breast cancer cell lines	M-3		
Arrest in cell movement of myeloid cells	M-3		ITGA4
Binding of plasmid DNA	M-3	PCNA	PCNA
Relaxation of mesenteric artery	M-3		
Attachment of embryonic cancer cell lines	M-3	CD36	
Aneuploidy	M-3	AURKA	
Modulation of microtubules	M-3	AURKA	
Quantity of hair follicle	M-3	FGF9	
Recruitment of hyaluronic acid	M-3	VCAN	
Mitotic catastrophe of rhabdoid cell lines	M-3	AURKA	
Cell spreading of bladder cancer cell lines	M-3		LGALS8
Accumulation of pancreatic cancer cell lines	M-3	AURKA	
Caspase-independent cell death of pancreatic cancer cell lines	M-3	AURKA	
Differentiation of mammary gland	M-3	PRL	
Thickness of vascular smooth muscle cells	M-3		
Cell-cell adhesion of vascular endothelial cells	M-3		LGALS8
Quantity of spindle cells	M-3	VCAN	
Delay in mitosis of breast cancer cell lines	M-3		
Remyelination	M-3	PRL	
Cell rolling of mononuclear leukocytes	M-3		ITGA4
Synthesis of pregnenolone	M-3	FGF9, PRL	
Fusion of chorion	M-3		ITGA4
Morphogenesis of gland	M-3	PRL	
Sensitivity of gonadal cell lines	M-3	PCNA	PCNA
Relaxation of mesenteric resistance artery	M-3		
Synthesis of catecholamine	M-3	PRL	

Density of sinusoid	M-3		
Chemotaxis of endothelial cell lines	M-3	CD36	
Cell rolling of blood cells	M-3	CD36	ITGA4
Elastogenesis of fibroblasts	M-3	VCAN	
Size of gonad	M-3		
Morphology of reproductive system	M-3	PRL	
Relaxation of artery	M-3	PRL	
Attraction of phagocytes	M-3	VCAN	
Quantity of intramyocellular lipid store	M-3		
Survival of rhabdoid cell lines	M-3	AURKA	
Contractility of dermal fibroblasts	M-3	VCAN	
Outgrowth of dorsal root ganglion cells	M-3	VCAN	
Binding of T lymphoblasts	M-3		ITGA4
Neovascularization of tibia	M-3	FGF9	
Mutagenesis of gene	M-3	PCNA	PCNA
S phase of fibroblast cell lines	M-3		
Senescence of embryonic cell lines	M-3	VCAN	
Fusion of allantois	M-3		ITGA4
Proliferation of embryonic tissue	M-3	FGF9	
Arborization of mammary duct	M-3	PRL	
Migration of mesonephric cells	M-3	FGF9	
Delay in initiation of clearance of pneumocytes	M-3	CD36	
Generation of filaments	M-3	PRL	
Binding of T lymphocytes	M-3	PRL	ITGA4
Adhesion of hepatic stellate cells	M-3	ADAM12	
Uptake of omega-(4-iodophenyl)pentadecanoic acid	M-3	CD36	
Depletion of hyaluronic acid	M-3	VCAN	
Function of blood cells	M-3	CD36	
Branching of mammary gland	M-3	PRL	
Delay in cell cycle progression of tumor cell lines	M-3	AURKA, PCNA	PCNA
Chemotaxis of vascular endothelial cells	M-3	CD36	
Expansion of basal stem cells	M-3		
Depletion of polysaccharide	M-3	CD36, VCAN	
Growth of genital organ	M-3	FGF9, PRL	
Growth of decidua	M-3	PRL	
Recruitment of leukemia cell lines	M-3		ITGA4
Isovolumetric relaxation time of left ventricle	M-3	THBS4	
Differentiation of pulmonary alveolus	M-3	FGF9, PRL	
Density of intrasyncytial bays	M-3		
Binding of p53 consensus binding site	M-3		
Morphology of smooth muscle cells	M-3		
Apoptosis of rhabdoid cell lines	M-3	AURKA	
Aneuploidy of embryonic cell lines	EGA1-1		
Catabolism of D-glucose	EGA1-1		
Myelination of central nervous system	EGA1-1		
G1 phase of lung cell lines	EGA1-1		
Arrest in cell cycle progression of B lymphocytes	EGA1-1		
Delay in cell cycle progression of fibroblast cell lines	EGA1-1		
Entry into mitosis of fibroblast cell lines	EGA1-1		

Entry into cell cycle progression of fibroblast cell lines	EGA1-1
Entry into S phase of epithelial cell lines	EGA1-1
G1/S phase transition of lung cell lines	EGA1-1
Myelination of corpus callosum	EGA1-1
Size of hepatocytes	EGA1-1
Rearrangement of chromosomes	EGA1-1
Cloning of cells	EGA1-1
Aneuploidy of fibroblast cell lines	EGA1-1
Duplication of body axis	EGA1-1
Delay in cell cycle progression	EGA1-1
G1 phase of fibroblast cell lines	EGA1-1
Apoptosis of squamous cell carcinoma cell lines	EGA1-1
Stimulation of fibroblast cell lines	EGA1-1
Colony survival of tumor cell lines	EGA1-1
Arrest in proliferation of lung cell lines	EGA1-1
Repair of cervical cancer cell lines	EGA1-1
Transcription of mRNA	EGA1-1
Differentiation of plasma cells	EGA1-1
G1 phase of kidney cell lines	EGA1-1
Size of tumor cell lines	EGA1-1
Accumulation of tumor cell lines	EGA1-1
Self-renewal of lymphatic system cells	EGA1-1
Synthesis of rRNA	EGA1-1
Mobilization of mononuclear leukocytes	EGA1-1
Cell survival of tumor cell lines	EGA1-1
Depletion of ATP	EGA1-1
Proliferation of synovial fibroblasts	EGA1-1
Incorporation of octanoic acid	EGA1-1
G1 phase of uterine cell lines	EGA1-1
Ploidy of keratinocytes	EGA1-1
Expansion of T-cell zone	EGA1-1
Cloning of melanoma cell lines	EGA1-1
Formation of marginal stream	EGA1-1
Gene amplification of B-lymphocyte derived cell lines	EGA1-1
Mitosis of Schwann cells	EGA1-1
Retention of granulocyte progenitors	EGA1-1
Size of lymphatic sinus	EGA1-1
Entrance of DNA	EGA1-1
Morphology of Tip cells	EGA1-1
Entry into S phase of melanoma cell lines	EGA1-1
Circulation of daunorubicin	EGA1-1
Localization of cortical interneurons	EGA1-1
Polyploidization of B-lymphocyte derived cell lines	EGA1-1
Formation of extrachromosomal cores	EGA1-1
Flow of lymphatic fluid	EGA1-1
Polyploidization of epithelial cell lines	EGA1-1
Quantity of lymphatic sinus	EGA1-1
Initiation of differentiation of epidermal cells	EGA1-1
Proliferation of photoreceptors	EGA1-1
Methylation of L-arginine	EGA1-1

Replicative senescence of ovarian cancer cell lines	EGA1-1
Maintenance of central memory cytotoxic T cells	EGA1-1
Killing of B cell hybridoma cells	EGA1-1
Formation of replication fork	EGA1-1
Arrest in G1/S phase transition of endothelial cell lines	EGA1-1
Influx of nitrate	EGA1-1
Cell division of lymphoma cell lines	EGA1-1
Polyploidization of kidney cell lines	EGA1-1
Delay in G1/S phase transition of chondrocytes	EGA1-1
Retention of pro-B lymphocytes	EGA1-1
Elimination of leukemia cell lines	EGA1-1
Immortalization of leukocyte cell lines	EGA1-1
Arrest in G1/S phase transition of breast cell lines	EGA1-1
Maturation of lymphatic system cells	EGA1-1
Activation of mitochondria	EGA1-1
Arrest in G2/M phase transition	EGA1-1
Mitosis of cervical cancer cell lines	EGA1-1
Entry into S phase of fibroblasts	EGA1-1
Interphase of melanoma cell lines	EGA1-1
Morphology of mitotic spindle	EGA1-1
Morphology of osteoclasts	EGA1-1
Entry into S phase of fibroblast cell lines	EGA1-1
Formation of spindle apparatus	EGA1-1
Accumulation of glutamine	EGA1-1
Engraftment of hematopoietic progenitor cells	EGA1-1
Fusion of styloid process of temporal bone	EGA1-1
Quantity of alpha-tocopherol phosphate	EGA1-1
Invasion of B cell hybridoma cells	EGA1-1
Cytostasis of gonadal cell lines	EGA1-1
Catabolism of glutamine	EGA1-1
Invasion by boundary cap cells	EGA1-1
DNA damage response of colorectal cancer cell lines	EGA1-1
Area of aortic valve	EGA1-1
Formation of mucus	EGA1-1
Differentiation of cholangiocarcinoma cell lines	EGA1-1
Arrest in G2/M phase transition of keratinocytes	EGA1-1
Senescence of B lymphocytes	EGA1-1
Reactivation of fibroblasts	EGA1-1
Quantity of spirochete	EGA1-1
Entry into S phase of intestinal cell lines	EGA1-1
Initiation of alveolization	EGA1-1
Arrest in G0/G1 phase transition of endothelial cells	EGA1-1
Accumulation of skin cancer cell lines	EGA1-1
Beta-oxidation of octanoic acid	EGA1-1
Transmigration of endothelial tissue	EGA1-1

Maintenance of memory natural killer cells	EGA1-1
Deficiency of non-plasmacytoid dendritic cells	EGA1-1
Expansion of pro-B lymphocytes	EGA1-1
Migration of dental pulp stem cells	EGA1-1
Radioresistance of hepatoma cell lines	EGA1-1
Cloning of fibroblast cell lines	EGA1-1
Proliferation of pancreatic duct cells	EGA1-1
Extravasation of hepatoma cell lines	EGA1-1
Mid-G1 phase	EGA1-1
Tubulation of tumor cell lines	EGA1-1
Preservation of elastic lamina	EGA1-1
Homing of progenitor cells	EGA1-1
Arrest in G0/G1 phase transition of rhabdoid cell lines	EGA1-1
Termination of cell cycle progression of fibroblasts	EGA1-1
Senescence of B-lymphoid cells	EGA1-1
Segmentation of occipital bone	EGA1-1
Extravasation of colorectal cancer cell lines	EGA1-1
Quantity of apoptotic oligodendrocytes	EGA1-1
Radioresistance of cervical cancer cell lines	EGA1-1
Killing of macrophage cancer cell lines	EGA1-1
Conversion of bile acid	EGA1-1
Accumulation of colonocytes	EGA1-1
Area of endothelial tube	EGA1-1
Cell cycle progression of brain cancer cell lines	EGA1-1
Expansion of pro-T lymphocytes	EGA1-1
Proliferation of lymphocyte precursor cells	EGA1-1
Morphology of mesenchymal stem cells	EGA1-1
Segmentation of basilar bone	EGA1-1
Size of brain cancer cell lines	EGA1-1
Invasion of lung cancer cell lines	EGA1-1
Migration of mesenchymal stem cells	EGA1-1
Binding of guanosine 5'-O-(3-thiotriphosphate)	EGA1-1
Arrest in G1 phase of embryonic cell lines	EGA1-1
Arrest in interphase of kidney cell lines	EGA1-1
Mass of mitochondria	EGA1-1
Proliferation of lung cell lines	EGA1-1
G1 phase of fibroblasts	EGA1-1
Size of lymphatic system cells	EGA1-1
Invasion of cervical cancer cell lines	EGA1-1
Quantity of oligodendrocytes	EGA1-1
Resorption of bone	EGA1-1
Maturation of lymphocytes	EGA1-1
Arrest in sub-G1 phase of squamous cell carcinoma cell lines	EGA1-1

Delay in initiation of differentiation of induced pluripotent stem cells	EGA1-1
Deletion of chromosomes	EGA1-1
Accumulation of kidney cell lines	EGA1-1
Colony survival of lymphoma cell lines	EGA1-1
Stimulation of embryonic cell lines	EGA1-1
Polyploidy of fibroblast cell lines	EGA1-1
Synthesis of acetyl-coenzyme A	EGA1-1
Size of lymphoma cell lines	EGA1-1
Length of endothelial tube	EGA1-1
Thickness of tunica intima	EGA1-1
Cell polarity formation of colorectal cancer cell lines	EGA1-1
Polarization of CD4+ T-lymphocytes	EGA1-1
Morphology of fibrous cap	EGA1-1
Binding of CD4+ T-lymphocytes	EGA1-1
Arrest in G1 phase of erythroblasts	EGA1-1
Morphology of cortical projection neurons	EGA1-1
Quantity of 1-palmitoyl-2-glutaroyl-sn-glycero-3-phosphorylcholine	EGA1-1
Homologous recombination repair of cervical cancer cell lines	EGA1-1
Delay in cell cycle progression of epithelial cell lines	EGA1-1
Poly(ADP-ribosyl)ation of protein	EGA1-1
Migration of gastrointestinal stromal tumor cell lines	EGA1-1
Arrest in cell cycle progression of hepatocytes	EGA1-1
Chemotaxis of cerebellar granule cell	EGA1-1
Function of aortic valve	EGA1-1
Trafficking of hematopoietic progenitor cells	EGA1-1
Quantity of 1-palmitoyl-2-(5-oxovaleroyl)-sn-glycero-3-phosphorylcholine	EGA1-1
Proliferation of central memory cytotoxic T cells	EGA1-1
Outgrowth of ovarian cancer cell lines	EGA1-1
Development of organ of Corti	EGA1-1
Homing of inflammatory leukocytes	EGA1-1
Cell cycle progression of skeletal muscle satellite cells	EGA1-1
Differentiation of sebocytes	EGA1-1
Deamination of adenosine	EGA1-1
Formation of kinetochore microtubule	EGA1-1
Uptake of lipoprotein	EGA1-1
Pre-TCR checkpoint of pro-T3 thymocytes	EGA1-1
Initiation of S phase	EGA1-1
Expansion of hematopoietic progenitor cells	EGA1-1
Meiotic nondisjunction	EGA1-1
Self-renewal of cells	EGA1-1
Homologous recombination of cells	EGA2-1
Repression of RNA	EGA2-1
Pluripotency of embryonic cell lines	EGA2-1

Cell viability of colorectal cancer cell lines	EGA2-1				
Pluripotency of embryonic stem cell lines	EGA2-1				
Proliferation of embryonic stem cells	EGA2-1				
Synthesis of protein	EGA2-1				
Inhibition of leukocytes	EGA2-1				
Hydrolysis of nucleotide	EGA2-1				
Formation of ribosome	EGA2-1				
Processing of rRNA	EGA2-1				
Biosynthesis of nucleoside triphosphate	EGA2-1				
Autophagy of embryonic cell lines	EGA2-1				
Permeability of intestine	EGA2-1				
Autophagy of bone cancer cell lines	EGA2-1				
G2/M phase	EGA2-1				
Cell death of sarcoma cell lines	EGA2-2			DPP4, HSPA5	LAMP1
Cell death of bone cancer cell lines	EGA2-2			DPP4	LAMP1
Hydrolysis of ATP	EGA2-1				
Processing of RNA	EGA2-1				
Cell viability of breast cancer cell lines	EGA2-1				
Synthesis of protein	EGA2-2			HSPA5	
Translation	EGA2-2			HSPA5	
Differentiation of embryonic tissue	EGA2-1				
Cell death of colorectal cancer cell lines	EGA2-1				
Initiation of transcription	EGA2-1				
Translation	EGA2-1				
Cell death of ovarian cancer cell lines	EGA2-1				
Apoptosis of ovarian cancer cell lines	EGA2-1				
Formation of microtubules	EGA2-1				
G2/M phase of tumor cell lines	EGA2-1				
Internalization of protein	EGA2-1				
Contraction of heart ventricle	EGA2-1				
Decay of RNA	EGA2-1				
Cell viability of gastrointestinal stromal tumor cell lines	EGA2-1				
Cell proliferation of carcinoma cell lines	EGA2-1				
G1 phase of tumor cell lines	EGA2-1				
Cell death of pheochromocytoma cell lines	EGA2-1				
Degradation of mitochondria	EGA2-1				
Cell death of bone cancer cell lines	EGA2-1				
Cell death of immune cells	EGA2-4	SLC2A1			
Cell death of central nervous system cells	EGA2-1				
Invasion of stomach cancer cell lines	EGA2-1				
Cell death of melanoma cell lines	EGA2-1				
Quantity of hematopoietic progenitor cells	EGA2-2				
Premature senescence of fibroblast cell lines	EGA2-1				
Interphase of fibroblast cell lines	EGA2-1				
Cell proliferation of carcinoma cell lines	EGA2-2				EPCAM
Interphase of colorectal cancer cell lines	EGA2-1				
Apoptosis of synovial fibroblasts	EGA2-1				
Amplification of centrosome	EGA2-1				
Maturation of connective tissue	EGA2-2				

G2 phase of tumor cell lines	EGA2-1
Cell death of stem cells	EGA2-1
Cell death of sarcoma cell lines	EGA2-1
Repair of DNA	EGA2-2
Cytostasis of connective tissue cells	EGA2-1
Size of dendritic trees	EGA2-1
Initiation of S phase of kidney cell lines	EGA2-1
Cell death of spleen-derived dendritic cells	EGA2-1
Mitosis of fibroblast cell lines	EGA2-1
Quantity of ursodeoxycholic acid	EGA2-1
Stabilization of mitochondria	EGA2-1
Mitochondrial membrane potential	EGA2-1
Calcium homeostasis of endoplasmic reticulum	EGA2-1
Arrest in G1 phase	EGA2-1
Initiation of synthesis of protein	EGA2-1
Formation of nucleosomes	EGA2-1
Arrest in G1 phase of tumor cell lines	EGA2-1
Arrest in growth of neuronal progenitor cells	EGA2-1
Cell cycle progression of fibroblasts	EGA2-1
Arrest in interphase of tumor cell lines	EGA2-1
Development of embryonic stem cells	EGA2-1
Cell death of megakaryocytes	EGA2-1
Mitotic exit of cervical cancer cell lines	EGA2-1
Apoptosis of bone marrow-derived neutrophils	EGA2-1
Aggregation of skin cell lines	EGA2-1
Arrest in G1 phase of lung cancer cell lines	EGA2-1
Implantation of embryo	EGA2-1
Cell cycle progression of bone cancer cell lines	EGA2-1
G2/M phase of colorectal cancer cell lines	EGA2-1
Aggregation of carcinoma cell lines	EGA2-1
Morphology of epithelial cell lines	EGA2-1
Arrest in G1 phase of breast cancer cell lines	EGA2-1
G2/M phase of breast cell lines	EGA2-1
Binding of chromosomes	EGA2-1
G2 phase of colorectal cancer cell lines	EGA2-1
G1 phase of breast cancer cell lines	EGA2-1
Arrest in G2 phase	EGA2-1
Production of C18-ceramide	EGA2-1
Cell cycle progression of connective tissue cells	EGA2-1
Arrest in G2/M phase of tumor cell lines	EGA2-1
Arrest in G2/M phase	EGA2-1
Formation of apoptosome	EGA2-1
Aggregation of epithelial cell lines	EGA2-1
Morphology of Peyer's patches	EGA2-1
Decay of mRNA	EGA2-1

Killing of bone marrow-derived dendritic cells	EGA2-1		
Elongation of protein	EGA2-1		
Morphology of muscle cell lines	EGA2-1		
Arrest in cell cycle progression of muscle cells	EGA2-1		
Opening of permeability transition pores	EGA2-1		
Synthesis of retinyl ester	EGA2-1		
Transmission of lipopolysaccharide	EGA2-1		
Production of natural killer precursor cells	EGA2-1		
Mitosis of liver cells	EGA2-1		
Proliferation of glandular epithelial cells	EGA2-1		
Arrest in interphase	EGA2-1		
Cell survival of fibroblast cell lines	EGA2-1		
Annealing of hnRNA	EGA2-1		
Differentiation of reticulocytes	EGA2-1		
Arrest in growth of keratinocytes	EGA2-1		
Maturation of rRNA	EGA2-1		
Permeability of mitochondrial outer membrane	EGA2-1		
Homeostasis of metal ion	EGA2-1		
Recruitment of vesicles	EGA2-1		
Arrest in G2 phase of tumor cell lines	EGA2-1		
Survival of yeast	EGA2-1		
Import of green fluorescent protein	EGA2-1		
Structural integrity of nucleosomes	EGA2-1		
Delay in mitosis	EGA2-1		
Migratory capacity of melanoma cell lines	EGA2-1		
Morphology of chromatin	EGA2-1		
Replication of genomic DNA	EGA2-1		
Exit from G1 phase	EGA2-1		
Formation of ribosome	EGA2-2		
Vacuolation of melanocytes	EGA2-2		CTSV
Cell viability of mast cells	EGA2-2		
Initiation of cohesion of sister telomere	EGA2-2		
Scaling of inner root sheath	EGA2-2		CTSV
Thickening of cardiomyocytes	EGA2-2		
Proliferation of melanocytes	EGA2-2		CTSV
Quantity of lung tissue	EGA2-2		
Maturation of red blood cells	EGA2-2		
Degradation of chromosomes	EGA2-2		
Attachment of desmosomes	EGA2-2		
Re-entry into M phase of lung cell lines	EGA2-2		
Recovery of heart ventricle	EGA2-2		
Damage of cellular membrane	EGA2-2		
Proliferation of peripheral blood leukocytes	EGA2-2		DPP4
Initiation of S phase of smooth muscle cells	EGA2-2		
Oxidative stress response of macrophage cancer cell lines	EGA2-2		
Arrest in G1 phase of carcinoma cell lines	EGA2-2		
Transmembrane transport of D-glucose	EGA2-2		

Quantity of LH	EGA2-2		
Migration of podocytes	EGA2-2	CTSV	
Radiosensitivity of lung cell lines	EGA2-2		
Colony formation of Helicobacter pylori 10700	EGA2-2		
Binding of mitochondria	EGA2-2		
Maturation of hematopoietic progenitor cells	EGA2-2		
Quantity of carcinoma cell lines	EGA2-2		
Maturation of satellite cells	EGA2-2		
Polyploidization of colorectal cancer cell lines	EGA2-2		
Cell viability of leukemia cell lines	EGA2-2	HSPA5	
Contraction of arteriole	EGA2-2		
Arrest in G2/M phase transition of leukemia cell lines	EGA2-2	DPP4	
Organization of myoepithelial cells	EGA2-2		
Maturation of osteoclasts	EGA2-2		
Healing of gastric mucosa	EGA2-2		
Folding of protein	EGA2-2	HSPA5	
Thickness of gingiva	EGA2-2	CTSV	
Migration of prostate cancer cells	EGA2-2	DPP4	
Metabolism by embryonic cell lines	EGA2-2		EPCAM
Morphogenesis of mammary alveolus	EGA2-2		
Metabolism by fibroblast cell lines	EGA2-2		EPCAM
Disassembly of actin filaments	EGA2-2		CAP1
Import of DNA	EGA2-2		
Cell viability of leukocyte cell lines	EGA2-2		
Stabilization of chromosomes	EGA2-2		
Interphase of embryonic cell lines	EGA2-2		
Breakdown of heme	EGA2-2		
Attachment of intermediate filaments	EGA2-2		
Stress response of tumor cell lines	EGA2-2	HSPA5	
Pluripotency of fibroblast cell lines	EGA2-2		
Oxidative stress response of melanoma cell lines	EGA2-2		
Morphology of heart cells	EGA2-2		
Metabolism by squamous cell carcinoma cell lines	EGA2-2		EPCAM
Quantity of intestinal cells	EGA2-2		
Fusion of chromosomes	EGA2-2		
Cell viability of stem cells	EGA2-2		
Formation of epidermis	EGA2-2	CTSV	
Dissociation of chromosomes	EGA2-2		
Organization of luminal epithelial cells	EGA2-2		
Organization of muscle cells	EGA2-2		
Reprogramming of embryonic cell lines	EGA2-2		
Quantity of ribosome	EGA2-2		
Killing of Staphylococcus aureus subsp. aureus str. Newman	EGA2-2	CTSV	
Stimulation of CD8+ T lymphocyte	EGA2-2		
Oxidative stress response of tumor cell lines	EGA2-2		
S phase of carcinoma cell lines	EGA2-2		
Stabilization of desmosomes	EGA2-2		
Generation of bilirubin	EGA2-2		

Deposition of vascular smooth muscle cells	EGA2-2			
Cell viability of endothelial cells	EGA2-2		HSPA5	
Aneuploidy of ovarian cancer cell lines	EGA2-2			
Accumulation of vascular smooth muscle cells	EGA2-2			
Quantity of lung cancer cell lines	EGA2-2			
Morphology of intercalated disks	EGA2-2			
Sealing of cellular membrane	EGA2-2			LAMP1
Double-stranded DNA break repair of cells	EGA2-2			
S phase of lung cancer cell lines	EGA2-2			
Apoptosis of gastric mucous cells	EGA2-2			
Dedifferentiation of gonadal cell lines	EGA2-2			
Permeability transition of mitochondria	EGA2-2		HSPA5	
Dissociation of vesicles	EGA2-2			
Synthesis of neurotransmitter	EGA2-2			
Outgrowth of dendrites	EGA2-2			
Survival of smooth muscle cell lines	EGA2-2			
Binding of ribosome	EGA2-2		HSPA5	
Metabolism by kidney cell lines	EGA2-2			EPCAM
Formation of hair follicle	EGA2-2		CTSV	
Alignment of actin filaments	EGA2-2			
Reorganization of cytoskeleton	EGA2-2			
Concentration of reactive oxygen species	EGA2-2			
Metabolism by epithelial cell lines	EGA2-2			EPCAM
Cleavage of heme	EGA2-2			
Maturation of bone marrow-derived immature dendritic cells	EGA2-2			
Maturation of myoblasts	EGA2-2			
Cytokinesis of ovarian cancer cell lines	EGA2-2			
Formation of gamma H2AX nuclear focus	EGA2-2			
Arrest in differentiation of melanoma cell lines	EGA2-2		DPP4	
Injury of mitochondrial membrane	EGA2-2			
Radiosensitivity of tumor cell lines	EGA2-2			
Concentration of linoleic acid	EGA2-2		HSPA5	
Quantity of prostatic duct	EGA2-2			
Viability	EGA2-2			
Transport of calcifediol	EGA2-2			
Translocation of chromosomes	EGA2-2			
Thickness of fibrous cap	EGA2-2			
Proliferation of basal keratinocytes	EGA2-2		CTSV	
Arrest in interphase of carcinoma cell lines	EGA2-2			
Homeostasis of bilirubin	EGA2-2			
Conversion of heme	EGA2-2			
Oxidation of heme	EGA2-2			
Secretion of taurocholic acid	EGA2-2			
Differentiation of prostatic tissue	EGA2-2			
Phosphorylation of glucose-6-phosphate	EGA2-2			
Dedifferentiation of ovarian cancer cell lines	EGA2-2			
Survival of heart	EGA2-2			

Quantity of keratin intermediate filaments	EGA2-2	
Formation of desmosomes	EGA2-2	
Morphology of myofibrils	EGA2-2	
Cell-cell adhesion of keratinocyte cancer cell lines	EGA2-2	
Uptake of calcifediol	EGA2-2	
Reprogramming of embryonic stem cell lines	EGA2-2	
Differentiation of embryonic tissue	EGA2-4	
Cell death of ovarian cancer cell lines	EGA2-4	
Invasion of stomach cancer cell lines	EGA2-4	
Mitochondrial membrane potential	EGA2-4	
Opening of permeability transition pores	EGA2-4	
Uptake of D-glucose	EGA2-4	SLC2A1
Invasion of fibroblast cell lines	EGA2-4	
Formation of pseudopodia	EGA2-4	AHNAK
Epithelial-mesenchymal transition of melanoma cell lines	EGA2-4	AHNAK
Secretion of lactic acid	EGA2-4	SLC2A1
Recruitment of vascular smooth muscle cells	EGA2-4	
Dynamics of actin cytoskeleton	EGA2-4	AHNAK
Activation of heart	EGA2-4	SLC2A1
Apoptosis of B-lymphocyte derived cell lines	EGA2-4	SLC2A1
Invasion of rhabdomyosarcoma cell lines	EGA2-4	SLC2A1
Transport of D-glucose	EGA2-4	SLC2A1
Quantity of colorectal cancer cell lines	EGA2-4	
Expansion of natural killer cells	EGA2-4	
Glycolysis of leukocyte cell lines	EGA2-4	SLC2A1
Remodeling of heart	EGA2-4	
Function of left ventricle	EGA2-4	SLC2A1
Transport of dehydroascorbic acid	EGA2-4	SLC2A1
Cell viability of germ cell tumor cell lines	EGA2-4	
Formation of kidney	EGA2-4	
Dilation of left ventricle	EGA2-4	SLC2A1
Cell death of heart tissue	EGA2-4	
Glycolysis of lung cancer cell lines	EGA2-4	SLC2A1
Development of sensory organ	EGA2-4	
Development of interventricular sulcus	EGA2-4	
Sudden death	EGA2-4	
Arrest in cell cycle progression of fibroblast cell lines	EGA2-4	AHNAK
Formation of utricle	EGA2-4	
Development of lateral plate mesoderm	EGA2-4	
Metabolism of lamivudine	EGA2-4	PGK1
Formation of pulmonary alveolus	EGA2-4	
Transport of galactose	EGA2-4	SLC2A1
Fragility of epidermis	EGA2-4	
Transmembrane potential of mitochondria	EGA2-4	
Uptake of 2-deoxyglucose	EGA2-4	SLC2A1
Apoptosis of germ cell tumor cell lines	EGA2-4	

Modulation of D-glucose	EGA2-4	SLC2A1			
Apoptosis of embryonic stem cells	EGA2-4	SLC2A1			
Development of trophoblast cells	EGA2-4				
Cell death of thymocytes	EGA2-4				
Differentiation of ectoderm	EGA2-4				
Permeability of epidermis	EGA2-4				
Organization of podocytes	EGA2-4				
Epithelial-mesenchymal transition of prostate cancer cell lines	EGA2-4	AHNAK			
Epithelial-mesenchymal transition of fibrosarcoma cell lines	EGA2-4	AHNAK			
Transport of mannose	EGA2-4	SLC2A1			
Colony formation of stomach cancer cell lines	EGA2-4				
Formation of renal glomerulus	EGA2-4				
Activation of hepatic stellate cells	EGA3-1	IL1A, IL6, LGALS3	IL6	LGALS3	IL6
Synthesis of purine nucleotide	EGA3-1	IL6, PINK1	IL6		IL6
Proliferation of multilineage progenitor cells	EGA3-1	IL6	IL6		IL6
Lifespan of organism	EGA3-1	CEBPB, LAMB1, NPC2			CEBPB
Autophagy	EGA3-1	CEBPB, IL6, PINK1	IL6	TRIB3	CEBPB, IL6
Apoptosis of heart	EGA3-1	IL6	IL6		IL6
Apoptosis of leukocyte cell lines	EGA3-1	CEBPB, ERBB2, IL6, LGALS3	ERBB2, IL6	LGALS3	CEBPB, IL6
Maturation of dendritic cells	EGA3-1	ELF3, IL1A, IL6	ELF3, IL6		IL6
Apoptosis of hematopoietic cell lines	EGA3-1	CEBPB, ERBB2, IL6, LGALS3	ERBB2, IL6	LGALS3	CEBPB, IL6
Synthesis of ATP	EGA3-1	IL6, PINK1	IL6		IL6
Apoptosis of central nervous system cells	EGA3-1				
Secretion of fatty acid	EGA3-1	ACSL4, IL1A, NPC2			
Oxidation of long chain fatty acid	EGA3-1	ACSL4, IL6	IL6	ACOX1	IL6
Osteoclastogenesis of leukocytes	EGA3-1	IL1A, IL6	IL6		IL6
Growth of blastocyst	EGA3-1				POU5F1
Quantity of germ cells	EGA3-1	IL1A, IL6	IL6		IL6
Cell death of hematopoietic cell lines	EGA3-1	CEBPB, ERBB2, IL6, LGALS3	ERBB2, IL6	LGALS3	CEBPB, IL6
Concentration of corticosterone	EGA3-1	IL1A, IL6	IL6		IL6
Cell death of kidney cancer cell lines	EGA3-1	IL6	IL6		IL6
Lipolysis of lipid	EGA3-1	IL6	IL6		IL6
Entry into mitosis	EGA3-1				POU5F1
Concentration of acyl-coenzyme A	EGA3-1				
Transport of steroid	EGA3-1	IL6, NPC2	IL6		IL6
Quantity of breast cancer cell lines	EGA3-1	ERBB2, IL6	ERBB2, IL6		IL6, POU5F1
Secretion of prostaglandin E2	EGA3-1	ACSL4, IL1A, NPC2			
Generation of reactive oxygen species	EGA3-1	IL6, LGALS3, PINK1	IL6	LGALS3	IL6
Quantity of lactic acid	EGA3-1	ERBB2	ERBB2		
Development of tumor cell lines	EGA3-1	CEBPB, ERBB2, IL6	ERBB2, IL6		CEBPB, FLNA, IL6
Lipolysis	EGA3-1	IL6, NPC2, PPP2R5A	IL6		IL6
Cell death of myeloid cells	EGA3-1	CEBPB, IL6, LGALS3	IL6	LGALS3	CEBPB, IL6
Apoptosis of peritoneal macrophages	EGA3-1	CEBPB, LGALS3		LGALS3	CEBPB
Proliferation of antigen presenting cells	EGA3-1	ERBB2, IL6, LGALS3	ERBB2, IL6	LGALS3	IL6
Quantity of anion	EGA3-1	IL1A, IL6	IL6		IL6
Osteoclastogenesis	EGA3-1	IL1A, IL6	IL6		FLNA, IL6
Apoptosis of granulocytes	EGA3-1	IL6	IL6		IL6
Concentration of glutathione	EGA3-1	ERBB2, IL1A, IL6, LGALS3	ERBB2, IL6	LGALS3	IL6
Quantity of reactive oxygen species	EGA3-2	PTGS2			
Growth of organism	EGA3-1	CSE1L, ERBB2, GPD2, IL6	ERBB2, IL6	ACOX1	IL6, POU5F1
Activation of muscle cells	EGA3-1	IL1A, LGALS3, NPC2		LGALS3	
Expansion of myeloid cells	EGA3-1	ERBB2, IL1A, IL6	ERBB2, IL6		IL6
Sensitivity of cells	EGA3-1	CLDN4, ERBB2	ERBB2		
Apoptosis of myeloid cells	EGA3-1	CEBPB, IL6, LGALS3	IL6	LGALS3	CEBPB, IL6

Cell death of motor neurons	EGA3-1				
Growth of yeast	EGA3-2	LIG1			
Osteoclastogenesis of macrophages	EGA3-1	IL1A, IL6	IL6		IL6
Differentiation of adipocytes	EGA3-1	CEBPB, IL6	IL6	TRIB3	CEBPB, IL6
Insulin sensitivity	EGA3-1				
Adipogenesis of adipocytes	EGA3-1	CEBPB, IL6, NPC2	IL6		CEBPB, IL6
Oxidation of long chain fatty acid	EGA3-2				
Expression of prostaglandin E2	EGA3-2	PTGS2			
Outgrowth of neuroblasts	EGA3-2	ITGA6			
Induction of multinucleated cells	EGA3-2	PTGS2			
Delay in healing of tibia	EGA3-2	PTGS2			
Invasion by stromal cell lines	EGA3-2	PTGS2			
Migration of stromal cell lines	EGA3-2	PTGS2			
Synthesis of 12S-hydroxy-5Z 8E 10E-heptadecatrienoic acid	EGA3-2	PTGS2			
Oxidation of oleic acid	EGA3-2				
Generation of eicosapentenoic acid	EGA3-2	PTGS2			
Growth of Saccharomyces cerevisiae	EGA3-2	LIG1			
Quantity of 11-dehydro-thromboxane B2	EGA3-2	PTGS2			
Stimulation of renin angiotensin system	EGA3-2	PTGS2			
Nucleation of cells	EGA3-2	RHOD			
Recruitment of stromal cells	EGA3-2	PTGS2			
Concentration of phosphatidylserine	EGA3-2	PTGS2			
Interphase of fibroblasts	EGA3-2	POLK			
Synthesis of 11(R)-HETE	EGA3-2	PTGS2			
Mutagenesis of embryonic stem cells	EGA3-2	POLK			
Density of hair follicle	EGA3-2	PTGS2			
Homeostasis of rodents	EGA3-2	PTGS2			
Area of mammary alveolus	EGA3-2	USF2			
Assembly of lipoprotein	EGA3-2				
Proliferation of erythroblasts	EGA3-2				
Apoptosis of uterine cell lines	EGA3-2	PTGS2			
Interaction of Schwann cells	EGA3-2	ITGA6			
Invasion by uterine cell lines	EGA3-2	PTGS2			
Binding of skin cell lines	EGA3-2	ITGA6			
Development of proamniotic cavity	EGA3-2				
Cell spreading of connective tissue cells	EGA3-2	RHOD			
Vascular permeability of ear	EGA3-2	PTGS2			
Survival of uterine cell lines	EGA3-2	PTGS2			
Colony formation of cervical cancer cell lines	EGA3-2	USF2			
Incidence of fibrous tissue	EGA3-2	PTGS2			
Delay in organismal death	EGA3-2				
Survival of stromal cell lines	EGA3-2	PTGS2			
Invasion of ovarian cancer cell lines	EGA3-2	CLDN3, PTGS2			
Proliferation of vascular tissue	EGA3-2	PTGS2			
Synthesis of prostaglandin G2	EGA3-2	PTGS2			
Angiogenesis of stromal tissue	EGA3-2	PTGS2			
Beta-oxidation of long chain fatty acid	EGA3-2				
Mass of mammary gland tissue	EGA3-2	USF2			
Stabilization of filopodia	EGA3-2	ITGA6			
Ossification of cardiac muscle	EGA3-3				
Morphology of neuromuscular junctions	EGA3-3				
Quantity of postsynaptic membrane	EGA3-3				
Ossification of skeletal muscle	EGA3-3				

Morphology of myotendinous junctions	EGA3-3
Infiltration by connective tissue cells	EGA3-3
Folding of postsynaptic membrane	EGA3-3
Accumulation of intramyocellular lipid store	EGA3-3
Lipolysis of lipid	EGA3-4
Quantity of lactic acid	EGA3-4
Development of tumor cell lines	EGA3-4
Differentiation of adipocytes	EGA3-4
Synthesis of cholesterol ester	EGA3-4
Quantity of peroxisomes	EGA3-4
Oxidation of palmitoyl-coenzyme A	EGA3-4
Oxidation of oleic acid	EGA3-4
Delay in organismal death	EGA3-4
Invasion of ovarian cancer cell lines	EGA3-4
Utilization of D-glucose	EGA3-4
Chemotaxis of vascular smooth muscle cells	EGA3-4
Synthesis of ketone body	EGA3-4
Development of breast cell lines	EGA3-4
Hydrolysis of protein	EGA3-4
Steroidogenesis of hormone	EGA3-4
Spermatogenesis	EGA3-4
Synthesis of glycerol	EGA3-4
Quantity of mitochondrial cristae	EGA3-4
Synthesis of hormone	EGA3-4
Colony formation of ovarian cancer cell lines	EGA3-4
Mitogenesis	EGA3-4
Secretion of cholesterol	EGA3-4
Migration of bladder cancer cell lines	EGA3-4
Removal of cholesterol	EGA3-4
Conversion of retinol	EGA3-4
Size of peroxisomes	EGA3-4
Fragmentation of cells	EGA3-4
Formation of testis	EGA3-4
Accumulation of stearic acid	EGA3-4
Redistribution of phospholipid	EGA3-4
Colony formation of fibroblasts	EGA3-4
Quantity of carnitine	EGA3-4
Secretion of leukotriene B4	EGA3-4
Adipogenesis of triacylglycerol	EGA3-4
Cell viability of eye cell lines	EGA3-4
Synthesis of acylglycerol	EGA3-4
Density of mitochondrial cristae	EGA3-4
Accumulation of phosphatidylinositol 4 5-diphosphate	EGA3-4
Regeneration of peripheral nerve	EGA3-4
Behavior	EGA3-4
Concentration of testosterone	EGA3-4
Apoptosis of lymphocytes	EGA3-4
Elongation of neurites	EGA3-4
Mass of epididymal fat	EGA3-4
Mass of liver	EGA3-4
Accumulation of oleic acid	EGA3-4
Ingestion by mice	EGA3-4
Cell movement of vascular smooth muscle cells	EGA3-4
Function of heart ventricle	EGA3-4

Colony survival of lung cancer cell lines	EGA3-4
Formation of membrane blebs	EGA3-4
Quantity of lipid peroxide	EGA3-4
Formation of skin	EGA3-4
Proliferation of vascular smooth muscle cells	EGA3-4
Regulation of L-glutamic acid	EGA3-4
Absorption of cholesterol	EGA3-4
Catabolism of lipoprotein	EGA3-4
Generation of superoxide	EGA3-4
Accumulation of palmitic acid	EGA3-4
Binding of DNA endogenous promoter	EGA3-4
Retention of phosphatidylinositol 4 5-diphosphate	EGA3-4
Metabolism of terpenoid	EGA3-4
Regulation of cholesterol	EGA3-4
Quantity of segmented filamentous bacterium	EGA3-4
Mitogenesis of hepatocytes	EGA3-4
Binding of NF-kappa B response element	EGA3-4
Differentiation of spermatogonia	EGA3-4
Development of forelimb	EGA3-4
Recovery of heart	EGA3-4
Synthesis of urea	EGA3-4
Ingestion of ethanol	EGA3-4
Apoptosis of fibroblasts	EGA3-4
Development of liver	EGA3-4
Development of B lymphocytes	EGA3-4
Formation of ketone body	EGA3-4
Modification of chromatin	EGA3-4
Concentration of cholesterol	EGA3-4
Place preference	EGA3-4
Quantity of stratum corneum	EGA3-4
G1/S phase transition of fibroblasts	EGA3-4
Function of peroxisomes	EGA3-4
Transport of fatty acid	EGA3-4
Size of atrium	EGA3-4
Breakdown of mitochondrial outer membrane	EGA3-4
Apoptosis of leukocytes	EGA3-4
Oxidation of fat	EGA3-4
Function of mitochondria	EGA3-4
Proliferation of peroxisomes	EGA3-4
Excretion of sterol	EGA3-4
Quantity of endothelial progenitor cells	EGA3-4
Development of breast cancer cell lines	EGA3-4
Secretion of triacylglycerol	EGA3-4
Morphology of embryonic cell lines	EGA3-4
Homeostasis of lipid	EGA3-4
Synthesis of tretinoin	EGA3-4
Adipogenesis of liver	EGA3-4
Regulation of triacylglycerol	EGA3-4
Reorganization of actin	EGA3-4
Trafficking of cells	EGA3-4
Tubulogenesis of endothelial cell lines	EGA3-4

Oxidation of 9-methylpentadecanoic acid	EGA3-4				
Regulation of D-glucose	EGA3-4				
Apoptosis of bone marrow-derived mast cells	EGA3-4				
Cycling of D-glucose	EGA3-4				
Binding of Ca2+	EGA3-4				
Accumulation of linoleic acid	EGA3-4				
Degradation of leukotriene B4	EGA3-4				
Response of hepatocytes	EGA3-4				
Mass of adipose tissue	EGA3-4				
Generation of immunosuppressive regulatory B cells	EGA3-4				
Cocaine seeking behavior	EGA3-4				
Clustering of phosphatidylinositol 4 5-diphosphate	EGA3-4				
Nocifensive behavior	EGA3-4				
Tubulogenesis	EGA3-4				
Quantity of actin cytoskeleton	EGA3-4				
Infiltration by lipid	EGA3-4				
Metabolism of amino acids	EGA3-4				
Morphology of fibroblast cell lines	EGA3-4				
Metabolism by adipose tissue	EGA3-4				
Adipogenesis	EGA3-4				
Uptake of bile salt	EGA3-4				
Conduction of heart	EGA3-4				
Excision repair	EGA3-4				
Storage of lipid	EGA3-4				
Production of taurocholic acid	EGA3-4				
Differentiation of eosinophils	EGA3-4				
Apoptosis of superior cervical ganglion neurons	EGA3-4				
Synthesis of 2-arachidonoylglycerol	EGA3-4				
Synthesis of testosterone	EGA3-4				
G1/S phase transition	EGA3-4				
Synthesis of lipoprotein	EGA3-4				
Development of endocrine region of pancreas	EGA3-4				
Transport of mitochondria	EGA3-4				
G1/S phase transition of smooth muscle cells	EGA3-4				
Cell viability of ovarian cancer cell lines	EGA3-4				
Disappearance of D-glucose	EGA3-4				
Synthesis of carnitine	EGA3-4				
Development of digestive system	EGA3-4				
Esterification of cholesterol	EGA3-4				
Uptake of 9-methylpentadecanoic acid	EGA3-4				
Delay in formation of stratum corneum	EGA3-4				
Mass of fat pad	EGA3-4				
Binding of AP1 response element	EGA3-4				
Tubulogenesis of endothelial cells	EGA3-4				
Differentiation of B lymphoblastoid cell lines	EGA3-1	IL6	IL6		IL6
Function of gastrointestinal tract	EGA3-1	IL6	IL6		IL6
Necroptosis	EGA3-1				
Quantity of stearoyl-coenzyme A	EGA3-1				
Adipogenesis of lipid	EGA3-1	CEBPB			CEBPB

Desaturation of palmitoyl-coenzyme A	EGA3-1				
Accumulation of anion	EGA3-1	IL6	IL6		IL6
Distribution of mitochondria	EGA3-1	PINK1			
Formation of basement membrane	EGA3-1	LAMB1			
Cleavage of protein binding site	EGA3-1	CEBPB			CEBPB
Binding of AP1/CRE element	EGA3-1				
Recovery of ATP	EGA3-1				
Diffusion of K+	EGA3-1				
Synthesis of cholesterol ester	EGA3-1				
Quantity of 1-palmitoyl-2-linoleoyl-sn-glycero-3-phosphocholine	EGA3-1			LPCAT3	
Clathrin mediated endocytosis by breast cancer cell lines	EGA3-1	ERBB2	ERBB2		
DNA damage response of breast cell lines	EGA3-1				
Desaturation of stearoyl-coenzyme A	EGA3-1				
Secretion of sterol	EGA3-1			LPCAT3	
Morphology of epithelial cells	EGA3-1	ERBB2	ERBB2		POU5F1
Quantity of megakaryocytes	EGA3-1	IL1A			FLNA
Binding of breast cell lines	EGA3-1	ELF3, ERBB2, LGALS3	ELF3, ERBB2	LGALS3	
Thrombopoiesis	EGA3-1	IL1A, IL6	IL6		FLNA, IL6
Development of germinal center	EGA3-1				
Concentration of long chain fatty acid	EGA3-1				
Conversion of L-proline	EGA3-1			OAT	
Growth of focal adhesions	EGA3-1				FLNA
Glycogenolysis	EGA3-1	CEBPB			CEBPB
Lipolysis of fatty acid	EGA3-1	IL6	IL6		IL6
Expansion of myeloid progenitor cells	EGA3-1	IL6	IL6		IL6
Initiation of cell movement of neurons	EGA3-1				FLNA
Sensitivity of connective tissue cells	EGA3-1				
Entry into mitosis of tumor cell lines	EGA3-1				POU5F1
Stimulation of synovial cells	EGA3-1	IL1A, IL6	IL6		IL6
Concentration of 18:1(n-9) fatty acids	EGA3-1				
Polarity of epithelial cells	EGA3-1	ERBB2	ERBB2		
Development of pancreatic cancer cell lines	EGA3-1	CEBPB			CEBPB
Distribution of bladder cancer cell lines	EGA3-1				POU5F1
Quantity of S-adenosylmethionine	EGA3-1	SHMT1			
Recovery of hematopoietic cells	EGA3-1	IL6	IL6		IL6
Stimulation of steroid	EGA3-1	IL1A, IL6	IL6		IL6
Cell spreading of fibrosarcoma cell lines	EGA3-1				FLNA
Senescence of breast cancer cell lines	EGA3-1	ERBB2	ERBB2		
Concentration of glycerol	EGA3-1	GPD2			
Regulation of connective tissue cells	EGA3-1	ERBB2	ERBB2		
Binding of cAMP response element	EGA3-1	CEBPB, ERBB2	ERBB2		CEBPB
Accumulation of tetracosahexaenoic acid	EGA3-1			ACOX1	
Quantity of nitrite	EGA3-1	IL1A, IL6	IL6		IL6
Quantity of fat	EGA3-1				
Arrest in G1 phase of melanoma cell lines	EGA3-1	IL1A, IL6	IL6		IL6
Cell-cell contact of synovial cells	EGA3-1	IL6	IL6		IL6
Activation of tamoxifen	EGA3-1	ERBB2	ERBB2		
Invasion of intestinal cell lines	EGA3-1	IL6	IL6		IL6
Self-renewal of embryonic stem cells	EGA3-1				POU5F1
Incorporation of phosphatidylinositol	EGA3-1	ACSL4			

Initiation of migration of leukemia cell lines	EGA3-1				FLNA
Function of gonad	EGA3-1	CEBPB, IL6	IL6		CEBPB, IL6
Sensitivity of fibroblast cell lines	EGA3-1	CLDN4			
Quantity of peroxisomes	EGA3-1			ACOX1	
Oxidation of palmitoyl-coenzyme A	EGA3-1			ACOX1	
Desaturation of palmitoleic acid	EGA3-1				
Efficiency of neuromuscular junctions	EGA3-1	ERBB2	ERBB2		
Delay in S phase of fibroblasts	EGA3-1				
Cell spreading of skin cancer cell lines	EGA3-1	ERBB2	ERBB2		SDC4
Induction of CD4+ T-lymphocytes	EGA3-1	IL6	IL6		IL6
Apoptosis of stria vascularis cells	EGA3-1				
Transduction of cells	EGA3-1	IL6	IL6		IL6, POU5F1
Modification of long-chain acyl-coenzyme A	EGA3-1			ACOX1	
Fragmentation of genomic DNA	EGA3-1	IL6	IL6		IL6
Formation of asters	EGA3-1	CSE1L			
Quantity of palmitoyl-coenzyme A	EGA3-1				
Conversion of L-amino acid	EGA3-1			OAT	
Autophagy of mitochondria	EGA3-1	PINK1			
Closure of embryonic tissue	EGA3-1	SHMT1			SDC4
Arrest in mitosis	EGA3-1	CSE1L			CCT4
Stimulation of fibroblasts	EGA3-1	IL1A, LGALS3		LGALS3	POU5F1
Cardiovascular toxicity property of trastuzumab	EGA3-1	ERBB2	ERBB2		
Expansion of granulocytes	EGA3-1	IL6	IL6		IL6
Regulation of hormone	EGA3-1				
Hypermaturation of dendritic cells	EGA3-1	ELF3	ELF3		
Cell spreading of RPE cells	EGA3-1	LGALS3		LGALS3	
Dedifferentiation of trophectoderm cells	EGA3-1				POU5F1
Angiogenesis of brain	EGA3-1	IL6	IL6		IL6
Stimulation of hepatoma cell lines	EGA3-1	IL1A, IL6	IL6		IL6
Glomerular filtration rate of kidney	EGA3-1				
Quantity of Cajal-Retzius neurons	EGA3-1	APLP2			APLP2
Apoptosis of endometrial cells	EGA3-1	CEBPB			CEBPB
Color of bile	EGA3-1	IL6	IL6		IL6
Aggregation of F-actin	EGA3-1	SHROOM3			
Quantity of monounsaturated fatty acids	EGA3-1				
Activation of enteric neurons	EGA3-1	IL6	IL6		IL6
Hydrolysis of fatty acid	EGA3-1	IL6	IL6		IL6
Activation of adenohypophysis	EGA3-1	IL6	IL6		IL6
Double-stranded DNA break repair of tumor cell lines	EGA3-1				
Defasciculation of motor nerve	EGA3-1	ERBB2	ERBB2		
Concentration of malonyl-coenzyme A	EGA3-1				
Accumulation of primary spermatocytes	EGA3-1				
Dispersal of nuclear bodies	EGA3-1				
Binding of p53 response element	EGA3-1	CEBPB			CEBPB
Cell cycle progression of neurons	EGA3-1				FLNA
Development of induced pluripotent stem cells	EGA3-1				POU5F1
Cell division of hepatocytes	EGA3-1				
Onset of cell death	EGA3-1				
Survival of hepatic stellate cells	EGA3-1	IL6	IL6		IL6
Stimulation of prostaglandin	EGA3-1	IL1A, IL6	IL6		IL6
Binding of C/EBP binding site	EGA3-1	CEBPB, IL6	IL6	TRIB3	CEBPB, IL6

Activation-induced cell death of CD8+ T lymphocyte	EGA3-1	IL1A, IL6	IL6		IL6
Proliferation of microglia	EGA3-1	ERBB2, IL6, LGALS3	ERBB2, IL6	LGALS3	IL6
Cytotoxicity of fibroblasts	EGA3-1				
Downregulation of steroid	EGA3-1				
Differentiation of Th22 cells	EGA3-1	IL6	IL6		IL6
Fat body mass	EGA3-1	IL6	IL6		IL6
Morphology of trabecula	EGA3-1	IL6	IL6		IL6
Stimulation of prostaglandin E2	EGA3-1	IL1A			
Ovulation of ovary	EGA3-1	CEBPB, IL6	IL6		CEBPB, IL6
Release of steroid hormone	EGA3-1	IL1A			
G2 phase of fibroblasts	EGA3-1				
Incorporation of arachidonic acid	EGA3-1	ACSL4			
Development of muscle spindle	EGA3-1	ERBB2	ERBB2		
Synthesis of sphinganine	EGA3-1				
Development of peripheral blood leukocytes	EGA3-1	IL6	IL6		IL6
Activation of hypothalamic neurons	EGA3-1				
Downregulation of norepinephrine	EGA3-1	IL6	IL6		IL6
Attachment of RPE cells	EGA3-1	LGALS3		LGALS3	
Incorporation of carbohydrate	EGA3-1	ACSL4			
Cellular infiltration by inflammatory monocytes	EGA3-1	IL6	IL6		IL6
Conversion of choline	EGA3-1	CHDH			
Accumulation of fatty acid	EGA3-1			ACOX1	
Activation of smooth muscle cells	EGA3-1	IL1A, NPC2			
Delamination of neural crest cells	EGA3-1				
Concentration of glycine	EGA3-1	ERBB2	ERBB2		
Proliferation of plasma cells	EGA3-1	IL6	IL6		IL6
Contraction of ventricular myocytes	EGA3-1				
Turnover of bone	EGA3-1	IL6	IL6		IL6
Arrest in mitosis of cervical cancer cell lines	EGA3-1	CSE1L			CCT4
Segregation of cells	EGA3-1	APLP2			APLP2
Cell viability of bone marrow stromal cells	EGA3-1				
Cytotoxicity of fibroblast cell lines	EGA3-1	ERBB2	ERBB2		
Proliferation of trophoblast cells	EGA3-1				POU5F1
Glycogenolysis of liver	EGA3-1				
Morphology of stomach cancer cell lines	EGA3-1				POU5F1
Clearance of Trypanosoma cruzi Tulahuen strain	EGA3-1	LGALS3		LGALS3	
Cell cycle progression of cortical neurons	EGA3-1				
Accumulation of asialo GM2 ganglioside	EGA3-1	NPC2			
Weakness of hindlimb	EGA3-1	IL6	IL6		IL6
Morphology of mitochondria	EGA3-1	PINK1			
Interconnectivity of mitochondria	EGA3-1	PINK1			
Regulation of regulatory T lymphocytes	EGA3-1	IL6	IL6		IL6
Conversion of coenzyme A	EGA3-1				
Migration of colon carcinoma cells	EGA3-1	IL6	IL6		IL6
Closure of neural tube	EGA3-1	SHMT1			SDC4
Accumulation of palmitoleic acid	EGA3-1				
Transcytosis	EGA3-1				FLNA
Synthesis of phosphatidylethanolamine	EGA3-1				
Bone mineral density of trabecula	EGA3-1				
Ruffling of cell periphery	EGA3-1				FLNA

Desaturation of palmitic acid	EGA3-1					
Activation of vagus nerve	EGA3-1					
Daytime core body temperature	EGA3-1					
Orientation of cells	EGA3-1	CSE1L, IL1A, IL6	IL6			IL6, SDC4
Migration of tumor cells	EGA3-1	CSE1L, DSG2, ERBB2, IL6, LGALS3	ERBB2, IL6	LGALS3		IL6
Hydrolysis of lipid	EGA3-1	IL6	IL6			IL6
Autophagy of cells	EGA3-1	CEBPB, IL6, PINK1	IL6	TRIB3		CEBPB, IL6
Release of carbohydrate	EGA3-1	IL1A, IL6	IL6			IL6
Growth of organism	EGA3-2	ITGA6, LIG1, PTGS2, USF2				
Growth of uterus	EGA3-1	CEBPB				CEBPB
Activation of brain	EGA3-1	IL6, WWC1	IL6			IL6
Release of glycerol	EGA3-1	IL6	IL6			IL6
Metabolism of carbohydrate	EGA4-1	DUSP6, NFKB1	NFKB1	IGF1, SLC37A4	SPP1	
Synthesis of carbohydrate	EGA4-1	DUSP6, NFKB1	NFKB1	IGF1, SLC37A4	SPP1	
Activation of blood cells	EGA4-1	HSPB8, NFKB1, PTGES	NFKB1	CD63, IGF1	SPP1	
Fatty acid metabolism	EGA4-1	ABCG2, DECR1, EPHX2, FOXA1, NFKB1, PTGES	NFKB1	IGF1, UGCG		
Differentiation of central nervous system cells	EGA4-1			IGF1		
Cell movement of hepatoma cell lines	EGA4-1	SPARC		IGF1	SPP1	
Activation of myeloid cells	EGA4-1	PTGES		CD63, IGF1	SPP1	
Stimulation of cells	EGA4-1	PTGES		IGF1	SPP1	
Synthesis of D-glucose	EGA4-1	DUSP6, NFKB1	NFKB1	SLC37A4		
Transport of carboxylic acid	EGA4-1	ABCG2		IGF1, SLCO2B1		
Quantity of neurites	EGA4-1			IGF1	MYO6	
Differentiation of brain cells	EGA4-1			IGF1		
Release of metal	EGA4-1			IGF1	SPP1	
Quantity of blood vessel	EGA4-1	SPARC				
Quantity of bone cells	EGA4-1	NFKB1, SPARC	NFKB1	IGF1	SPP1	
Proliferation of chondrocytes	EGA4-1	NFKB1	NFKB1	IGF1		
Branching of axons	EGA4-1			UGCG		
Cell movement of leukocytes	EGA4-1	EPHX2, NFKB1, PTGES, SPARC, TIMP3	NFKB1, TIMP3	CD63, QPCT	SPP1	
Axonogenesis	EGA4-1			IGF1, UGCG		
Cell movement of blood cells	EGA4-1	EPHX2, NFKB1, PTGES, SPARC, TIMP3	NFKB1, TIMP3	CD63, IGF1, QPCT	SPP1	
Cell movement of endothelial cells	EGA4-1	SPARC, TIMP3	TIMP3	CD63, IGF1	SPP1	
Quantity of lymphocytes	EGA4-1	ABCG2, EPHX2, NFKB1, PSMB9	NFKB1	IGF1	SPP1	
Quantity of connective tissue cells	EGA4-1	NFKB1, SPARC	NFKB1	IGF1, UGCG	SPP1	
Phosphorylation of protein	EGA4-1			IGF1	SPP1	
Cell viability of central nervous system cells	EGA4-1	HSPB8		IGF1		
Transport of ion	EGA4-1			IGF1, SLCO2B1		
Cellular infiltration by leukocytes	EGA4-1	EPHX2, NFKB1, PTGES, SPARC, TIMP3	NFKB1, TIMP3		SPP1	
Transport of cation	EGA4-1			IGF1		
Quantity of lymphatic system cells	EGA4-1	ABCG2, EPHX2, NFKB1, PSMB9	NFKB1	IGF1	SPP1	
Quantity of glycosylceramide	EGA4-1			IGF1, UGCG		
Chemotaxis of myeloid cells	EGA4-1				SPP1	
Quantity of glycosphingolipid	EGA4-1	ABCG2		IGF1, UGCG		
Limb development	EGA4-1			IGF1		
Tyrosine phosphorylation of protein	EGA4-1			IGF1	SPP1	
Cell movement of myeloid cells	EGA4-1	EPHX2, PTGES, TIMP3	TIMP3	QPCT	SPP1	
Growth of limb	EGA4-1			IGF1		
Fusion of vesicles	EGA4-1	LAMP2			SPP1	
Cell viability of connective tissue cells	EGA4-1	NFKB1, PDCD4	NFKB1	IGF1	SPP1	
Quantity of mononuclear leukocytes	EGA4-1	ABCG2, EPHX2, NFKB1, PSMB9	NFKB1	IGF1	SPP1	
Migration of prostate cancer cell lines	EGA4-1			IGF1		
Differentiation of oligodendrocytes	EGA4-1			IGF1		

Binding of fibroblast cell lines	EGA4-1			IGF1	SPP1
Quantity of smooth muscle cells	EGA4-1	PTGES, TIMP3	TIMP3	IGF1	
Cell viability of brain cells	EGA4-1	HSPB8		IGF1	
Cellular infiltration by blood cells	EGA4-1	EPHX2, NFKB1, PTGES, SPARC, TIMP3	NFKB1, TIMP3		SPP1
Quantity of filaments	EGA4-1				RTKN, SPP1
Homeostasis of ion	EGA4-1	NFKB1	NFKB1	IGF1	
Quantity of actin filaments	EGA4-1				RTKN, SPP1
Cellular infiltration	EGA4-1	EPHX2, NFKB1, PTGES, SPARC, TIMP3	NFKB1, TIMP3		SPP1
Metabolism of hydrogen peroxide	EGA4-1	ABCG2			
Cell death of eye cells	EGA4-1	TIMP3	TIMP3	IGF1	
Accumulation of glycosphingolipid	EGA4-1			UGCG	
Quantity of cerebroside	EGA4-1			IGF1, UGCG	
Quantity of muscle	EGA4-1	PTGES, TIMP3	TIMP3	IGF1	
Accumulation of carbohydrate	EGA4-1			SLC37A4	
Apoptosis of bone marrow cell lines	EGA4-1	PLAC8		IGF1	
Binding of endothelial cells	EGA4-1	SPARC, TIMP3	TIMP3	CD63	SPP1
Accumulation of polysaccharide	EGA4-1			SLC37A4	
Cell death of retinal cells	EGA4-1	TIMP3	TIMP3	IGF1	
Transport of metal	EGA4-1			IGF1	
Cell movement of epithelial cell lines	EGA4-1	NFKB1	NFKB1	IGF1	SPP1
Quantity of antigen presenting cells	EGA4-1	EPHX2, NFKB1	NFKB1	IGF1	SPP1
Colony formation of breast cancer cell lines	EGA4-1	DUSP6, SPARC			SPP1
Quantity of brain cells	EGA4-1	HSPB8		IGF1	
Apoptosis of pheochromocytoma cell lines	EGA4-1			IGF1	
Cellular infiltration by lymphocytes	EGA4-1	NFKB1, PTGES, SPARC, TIMP3	NFKB1, TIMP3		
Signaling of cells	EGA4-1	SPARC		IGF1	
Steroid metabolism	EGA4-1	FOXA1		IGF1	CYP51A1
Proliferation of brain cells	EGA4-1			IGF1	
Morphology of mesangial cells	EGA4-1	SPARC		IGF1	
Synthesis of cartilage matrix	EGA4-1			IGF1	
Accumulation of ganglioside	EGA4-1				
Morphology of muscle	EGA4-1	FZD4, HSPB8, NFKB1, PTGES	NFKB1	IGF1	SPP1
Dissemination of prostate cancer cell lines	EGA4-1			IGF1	
Release of cholesterol	EGA4-1				
Mass of skeletal muscle	EGA4-1	FZD4		IGF1	SPP1
Morphology of vessel	EGA4-1	PTGES		IGF1	SPP1
Excitation of neurons	EGA4-1			IGF1	
Neurogenesis of hippocampus	EGA4-1	HSPB8		IGF1	
Formation of cochlear duct	EGA4-1			IGF1	
Morphology of gland	EGA4-1	EPHX2		IGF1	
Development of chondrocytes	EGA4-1				
Migration of multiple myeloma cells	EGA4-1			IGF1	SPP1
Inhibition of mRNA	EGA4-1			IGF1	
Morphology of bone	EGA4-1			IGF1	SPP1
Morphology of blood vessel	EGA4-1	PTGES		IGF1	SPP1
Distribution of lipid	EGA4-1			UGCG	
Movement of actin filaments	EGA4-1				MYO6
Area of muscle cells	EGA4-1			IGF1	
Survival of osteoclasts	EGA4-1	NFKB1	NFKB1		SPP1
Proliferation of anterior pituitary cells	EGA4-1			IGF1	
Adhesion of neuroglia	EGA4-1				
Stabilization of intercellular junctions	EGA4-1			IGF1	
Relengthening of cardiomyocytes	EGA4-1			IGF1	
Chondrogenesis of fibroblast cell lines	EGA4-1				
Catabolism of hydrogen peroxide	EGA4-1	ABCG2			
Transport of rosuvastatin	EGA4-1	ABCG2		SLCO2B1	

Invasion of myeloma cell lines	EGA4-1			IGF1	
Homeostasis of neurons	EGA4-1	NFKB1	NFKB1		
Morphology of cellular protrusions	EGA4-1	FOXA1, SPARC		IGF1	MYO6
Proliferation of stromal cell lines	EGA4-1			IGF1	
Size of leukocytes	EGA4-1				
Chondrogenesis of embryonic cell lines	EGA4-1				
Vacuolation of epithelial cells	EGA4-1	SPARC			
Pyknosis	EGA4-1				
Diameter of cells	EGA4-1	SPARC		IGF1	SPP1
Thickening of basement membrane	EGA4-1			IGF1	
Size of bone	EGA4-1			IGF1	SPP1
Release of hydrogen peroxide	EGA4-1			IGF1	
Recruitment of phospholipid	EGA4-1				
Active avoidance response	EGA4-1	NFKB1	NFKB1		
Morphology of trabecular bone	EGA4-1			IGF1	
Binding of phospholipid	EGA4-1			IGF1	
Mass of extensor muscle	EGA4-1			IGF1	SPP1
Neurogenesis of brain cells	EGA4-1			IGF1	
Neuroprotection of tumor cell lines	EGA4-1				
Cell viability of vascular smooth muscle cells	EGA4-1			IGF1	
Density of microglia	EGA4-1	SPARC			
Rearrangement of actin stress fibers	EGA4-1			IGF1	
Modification of connective tissue	EGA4-1			IGF1	
Accumulation of glycogen	EGA4-1			SLC37A4	
Morphology of neurons	EGA4-1	FOXA1, NFKB1	NFKB1	IGF1	MYO6
Mitogenesis of fibroblast cell lines	EGA4-1	SPARC		IGF1	
Density of macrophages	EGA4-1	SPARC			
Migration of endometrial cancer cell lines	EGA4-1	FOXA1		IGF1	
Metabolism of cholesterol	EGA4-1				CYP51A1
Regeneration of bone	EGA4-1				
Mitogenesis of central nervous system cells	EGA4-1			IGF1	
Diameter of myofiber	EGA4-1			IGF1	SPP1
Attachment of connective tissue cells	EGA4-1	SPARC			SPP1
Quantity of sulfatides	EGA4-1			IGF1	
Activation of osteoblasts	EGA4-1			IGF1	SPP1
Quantity of neuroblasts	EGA4-1				
Morphology of pancreas	EGA4-1	EPHX2		IGF1	
Cell spreading of endothelial cell lines	EGA4-1	SPARC			
Quantity of osteoblasts	EGA4-1	NFKB1, SPARC	NFKB1		
Binding of cholesterol	EGA4-1				
Generation of embryonic cell lines	EGA4-1			IGF1	
Homeostasis of Ca2+	EGA4-1	NFKB1	NFKB1	IGF1	
Quantity of ganglioside GD3	EGA4-1			UGCG	
Volume of cerebrum	EGA4-1			IGF1	
Proliferation of cerebral cortex cells	EGA4-1			IGF1	
Damage of tumor cell lines	EGA4-1				SPP1
Stimulation of red blood cells	EGA4-1			IGF1	
Aggregation of filaments	EGA4-1	SPARC			
Movement of endocrine cell lines	EGA4-1			IGF1	SPP1
Thickness of cortical bone	EGA4-1			IGF1	
Quantity of glucosylceramide	EGA4-1			UGCG	
Surface area of bone	EGA4-1			IGF1	
Proliferation of hippocampal cells	EGA4-1			IGF1	
Deposition of proteoglycan	EGA4-1			IGF1	
Binding of embryonic cell lines	EGA4-1	TIMP3	TIMP3		
Size of pancreas	EGA4-1	EPHX2		IGF1	
Binding of cell surface	EGA4-1	SPARC		IGF1	

Density of synapse	EGA4-1					
Regression of embryonic tissue	EGA4-1					
Healing of epithelial tissue	EGA4-1	NFKB1	NFKB1		SPP1	
Storage of glycogen	EGA4-1					
Binding of fibroblasts	EGA4-1	SPARC		IGF1	SPP1	
Invasion of lymphoma cell lines	EGA4-1			IGF1		
Morphology of muscle cells	EGA4-1	HSPB8, NFKB1, PTGES	NFKB1	IGF1	SPP1	
Cytotoxicity of neurons	EGA4-1			IGF1		
Adhesion of smooth muscle cells	EGA4-1				SPP1	
Differentiation of cholinergic neurons	EGA4-1			IGF1		
Distribution of cholesterol	EGA4-1					
Shape change of endothelial cell lines	EGA4-1	SPARC				
Stimulation of brain cells	EGA4-1			IGF1		
Cell viability of muscle cells	EGA4-1	HSPB8		IGF1		
Anxiety-like behavior	EGA4-1	NFKB1	NFKB1	IGF1		
Context memory	EGA4-1			QPCT		
Oxidation of cholesterol	EGA4-1					
Stimulation of chondrocytes	EGA4-1			IGF1		
Mitogenesis of neuroglia	EGA4-1			IGF1		
Length of muscle cells	EGA4-1			IGF1	SPP1	
Calcification of cells	EGA4-1				SPP1	
Differentiation of stromal cell lines	EGA4-1			IGF1		
Morphology of prostate cell lines	EGA4-1			IGF1		
Morphology of skeletal muscle	EGA4-1	FZD4		IGF1	SPP1	
Shortening of cardiomyocytes	EGA4-1			IGF1		
Area of cells	EGA4-1			IGF1		
Growth of metatarsal bone	EGA4-1			IGF1		
Size of islets of Langerhans	EGA4-1	EPHX2				
Branching of axons	EGA4-2	ETV4				
Cell movement of endothelial cells	EGA4-2	CDH2, COL4A1, FN1, GAS6	FN1			CDH2, FN1
Migration of prostate cancer cell lines	EGA4-2	CDH11, FN1	FN1			CAPN2, FN1
Cell movement of fibrosarcoma cell lines	EGA4-2	CDH2, ETV4, FN1	FN1			CDH2, FN1
Polarization of cells	EGA4-2	CDH2, FN1	FN1, IL12B			CDH2, FN1
Cell movement of sarcoma cell lines	EGA4-2	CDH2, ETV4, FN1	FN1			CAPN2, CDH2, FN1
Migration of vascular endothelial cells	EGA4-2	FN1, GAS6	FN1			FN1
Chemotaxis of tumor cell lines	EGA4-2	ETV4, FN1, GAS6	FN1			CAPN2, FN1
Extension of cellular protrusions	EGA4-2	CDH2, FN1, GAS6	FN1			CDH2, FN1
Binding of phosphatidic acid	EGA4-2	FN1, GAS6	FN1			FN1
Cell death of trophoblast	EGA4-2					CAPN2
Structural integrity of Reichert's membrane	EGA4-2	COL4A1				
Aggregation of fibroblasts	EGA4-2	CDH11				
Cell death of endothelial cell lines	EGA4-2	CDH2, FN1	FN1			CDH2, CTSD, FN1
Arrest in differentiation of fibroblast cell lines	EGA4-2	FN1	FN1			FN1
Elongation of actin stress fibers	EGA4-2	FN1	FN1			FN1
Retraction of pseudopodia	EGA4-2	FN1	FN1			FN1
Invasion of Streptococcus sp group A	EGA4-2	FN1	FN1			FN1
Binding of adipose cell lines	EGA4-2	FN1	FN1			FN1
Morphogenesis of cardiovascular system	EGA4-2	ADAM19, GAS6				
Fertility	EGA4-2					
Aggregation of myoblasts	EGA4-2	CDH2				CDH2
Localization of actin stress fibers	EGA4-2	FN1	FN1			FN1
Quantity of Cryptococcus neoformans	EGA4-2		IL12B			
Shape change of kidney cell lines	EGA4-2	FN1	FN1			FN1
Morphology of thyroid cells	EGA4-2	FN1	FN1			FN1

Entry into G1/S phase transition of microvascular endothelial cells	EGA4-2	FN1	FN1	FN1
Cell spreading of ovarian cancer cell lines	EGA4-2	FN1	FN1	FN1
Morphology of nucleoli	EGA4-2			MTCP1
Replacement of serum	EGA4-2	FN1	FN1	FN1
Re-entry into cell cycle progression of breast cell lines	EGA4-2	GAS6		
Chemotaxis of brain cancer cell lines	EGA4-2	GAS6		
Onset of differentiation of keratinocyte cancer cell lines	EGA4-2	FN1	FN1	FN1
Reabsorption of cholesterol	EGA4-2	FLOT2		
Haptotaxis of neuroblastoma cell lines	EGA4-2	FN1	FN1	FN1
Tubulation by bone cancer cell lines	EGA4-2			
Differentiation of proplatelets	EGA4-2	FN1	FN1	FN1
Entry into S phase of skin cell lines	EGA4-2	FN1	FN1	FN1
Cell spreading by hematopoietic cell lines	EGA4-2	FN1	FN1	FN1
Reorganization of F-actin	EGA4-2	FN1	FN1	FN1
Quantity of vessel	EGA4-2			
Extension of microvascular endothelial cells	EGA4-2	FN1	FN1	FN1
Activation of chondrocytes	EGA4-2	FN1	FN1	FN1
Maintenance of embryonic stem cells	EGA4-2	FN1	FN1	FN1
Thickness of arterial wall	EGA4-2			
Assembly of fibroblast cell lines	EGA4-2	CDH2		CDH2
Binding of mesothelial cells	EGA4-2	FN1	FN1	FN1
Detachment of cells	EGA4-2	FN1	FN1	CAPN2, FN1
Size of heart	EGA4-2	CDH2, FN1	FN1	CDH2, FN1
Size of muscle	EGA4-2	FN1	FN1	FN1
Epithelial to mesenchymal transdifferentiation of lung cancer cell lines	EGA4-2			
Morphogenesis of heart	EGA4-2	ADAM19		
Delay in cell death of T lymphocytes	EGA4-2			CTSD
Formation of fibronectin matrix	EGA4-2	FN1	FN1	FN1
Structure of synapse	EGA4-2	CDH2		CDH2
Remyelination of sciatic nerve	EGA4-2	ADAM19		
Formation of heart ventricle	EGA4-2	ADAM19		
Haptotaxis of breast cancer cell lines	EGA4-2	FN1	FN1	FN1
Binding of gonadal cell lines	EGA4-2	FN1	FN1	FN1
Formation of colorectal cancer cell lines	EGA4-2	FN1	FN1	FN1
Collapse of growth cone	EGA4-2			CAPN2
Haptotaxis of cells	EGA4-2	FN1	FN1	FN1
Cell spreading of squamous cell carcinoma cell lines	EGA4-2	FN1	FN1	FN1
Epithelial to mesenchymal transdifferentiation of carcinoma cell lines	EGA4-2			
Shrinkage of fibroblasts	EGA4-2			CTSD
Healing of cornea	EGA4-2	FN1	FN1	FN1
Detachment of tumor cell lines	EGA4-2	FN1	FN1	FN1
Assembly of ovarian cancer cell lines	EGA4-2	CDH2		CDH2
Shape change of epithelial cell lines	EGA4-2	FN1	FN1	FN1
Development of adrenal medulla	EGA4-2			
Proliferation of adrenal glomerulosa cells	EGA4-2	FN1	FN1	FN1
Transport of nucleus	EGA4-2	FN1	FN1	FN1

Cell spreading of epithelial cell lines	EGA4-2	FN1	FN1	FN1
Clearance of Francisella tularensis	EGA4-2		IL12B	
Migration of bone cancer cell lines	EGA4-2	FN1	FN1	CAPN2, FN1
Stimulation of adrenal glomerulosa cells	EGA4-2	FN1	FN1	FN1
Anoikis of lung cancer cell lines	EGA4-2	COL4A1		
Chemotaxis of rhabdomyosarcoma cell lines	EGA4-2	FN1	FN1	FN1
Radioresistance of lung cancer cell lines	EGA4-2	FN1	FN1	FN1
Selection of endothelial cells	EGA4-2	FN1	FN1	FN1
Fibrogenesis of fibronectin matrix	EGA4-2	FN1	FN1	FN1
Chemotaxis of sarcoma cell lines	EGA4-2	ETV4, FN1	FN1	FN1
Adhesion of astrocytes	EGA4-2	FN1	FN1	FN1
Cytotoxicity of squamous cell carcinoma cell lines	EGA4-2	FN1	FN1	FN1
Proteolysis of peptide	EGA4-2			CTSD
Morphogenesis of head	EGA4-2	CDH2, FN1	FN1	CDH2, FN1
Induction of focal adhesions	EGA4-2	FN1	FN1	FN1
Delay in apoptosis of embryonic cell lines	EGA4-2	FN1	FN1	FN1
Binding of mural cells	EGA4-2	CDH2		CDH2
Development of effector dendritic cells	EGA4-2	FN1	FN1	FN1
Cell movement of neuroblastoma cell lines	EGA4-2	FN1	FN1	CAPN2, FN1
Cell spreading of lung cell lines	EGA4-2	FN1	FN1	FN1
Stimulation of microglia	EGA4-2	FN1	FN1	FN1
Formation of muscle cells	EGA4-2	FN1	FN1	FN1
Architecture of pneumocytes	EGA4-2	CDH11		
Outgrowth of fibroblasts	EGA4-2			CTSD
Attachment of eye cell lines	EGA4-2	FN1	FN1	FN1
Quantity of muscle cells	EGA4-2	CDH11		
Apoptosis of oligodendrocytes	EGA4-2	GAS6		
Adhesion of neuroepithelial cells	EGA4-2	FN1	FN1	FN1
Morphology of vessel component	EGA4-2			
Outgrowth of growth cone	EGA4-2	FN1	FN1	FN1
Attachment of bone-marrow-derived monocyte/macrophage precursor cells	EGA4-2	FN1	FN1	FN1
Shape change of cervical cancer cell lines	EGA4-2	FN1	FN1	FN1
Cell movement of lung cancer cell lines	EGA4-2	ETV4, FN1	FN1	FN1
Organization of sarcomere	EGA4-2	FN1	FN1	FN1
Morphology of yolk sac	EGA4-2	CDH2		CDH2
Deadhesion of cells	EGA4-2			CAPN2
Transduction of multilineage progenitor cells	EGA4-2	FN1	FN1	FN1
Detachment of hematopoietic progenitor cells	EGA4-2	FN1	FN1	FN1
Maturation of focal adhesions	EGA4-2	FN1	FN1	FN1
Cell rounding of tumor cell lines	EGA4-2	FN1	FN1	FN1
Replication of cells	EGA4-2		IL12B	CTSD
Cell spreading of breast cell lines	EGA4-2	FN1	FN1	FN1
Size of renal calyx	EGA4-2			
Size of pericardial cavity	EGA4-2	CDH2		CDH2
Relaxation of airway	EGA4-2	FN1	FN1	FN1
Chemotaxis of fibrosarcoma cell lines	EGA4-2	ETV4		
Transmigration of T lymphocytes	EGA4-2	COL4A1		
Hydrolysis of proteoglycan	EGA4-2			CTSD

Delay in rearrangement of cytoskeleton	EGA4-2	FN1	FN1	FN1
Antiapoptosis of stomach cancer cell lines	EGA4-2	FN1	FN1	FN1
Transdifferentiation of mesenchymal cells	EGA4-2	COL4A1		
Aggregation of ventricular myocytes	EGA4-2	CDH2		CDH2
Shape change of melanoma cell lines	EGA4-2	FN1	FN1	FN1
Binding of focal adhesions	EGA4-2	FN1	FN1	FN1
Innervation of forelimb	EGA4-2			
Quantity of myofibroblasts	EGA4-2	CDH11		
Quantity of fibroblasts	EGA4-2	CDH11, FN1	FN1	FN1
Ingestion of cells	EGA4-2	FN1	FN1, IL12B	FN1
Ingestion by peritoneal macrophages	EGA4-2		IL12B	
Formation of aortic valve	EGA4-2	ADAM19		
Release of proteoglycan	EGA4-2	FN1	FN1	FN1
Morphogenesis of medial ganglionic eminences	EGA4-2	CDH2		CDH2
Formation of adipose tissue	EGA4-2			
Cell-cell adhesion of fibroblast cell lines	EGA4-2	CDH11		
Formation of pulmonary valve	EGA4-2	ADAM19		
Cell spreading of bone cancer cell lines	EGA4-2	FN1	FN1	CAPN2, FN1
Binding of caveolae	EGA4-2	CAVIN2		
Aggregation of cortical neurons	EGA4-2	CDH2		CDH2
Uptake of thymocytes	EGA4-2	GAS6		
Arrest in mid-G1 phase of microvascular endothelial cells	EGA4-2	FN1	FN1	FN1
Accumulation of breast cancer cell lines	EGA4-2			
Cell spreading of eye cell lines	EGA4-2	FN1	FN1	FN1
Adhesion of Yersinia pestis	EGA4-2	FN1	FN1	FN1
Ingestion of red blood cells	EGA4-2		IL12B	
Delay in formation of focal adhesions	EGA4-2	FN1	FN1	FN1
Dynamics of cell-matrix contacts	EGA4-2	FN1	FN1	FN1
Interaction of stromal cell lines	EGA4-2	FN1	FN1	FN1
Cell movement of neuroglia	EGA4-2	FN1, GAS6	FN1	FN1
Length of vascular sprout	EGA4-2	GAS6		
Contact growth inhibition of endothelial cell lines	EGA4-2			
Degeneration of extracellular matrix	EGA4-2		IL12B	
Attachment of leukemia cell lines	EGA4-2	FN1	FN1	FN1
Angiogenesis of chorioallantoic membrane	EGA4-2	FN1	FN1	FN1
Formation of basal layer of epidermis	EGA4-2	CDH11		
Permeability of connective tissue cells	EGA4-2	COL4A1		
Adhesion of E. coli	EGA4-2	FN1	FN1	FN1
Transmigration of lymphocytes	EGA4-2	COL4A1, FN1	FN1	FN1
Degradation of autophagosomes	EGA4-2			CTSD
Cell spreading of keratinocyte cancer cell lines	EGA4-2	FN1	FN1	FN1
Anoikis of squamous cell carcinoma cell lines	EGA4-2	FN1	FN1	FN1
Morphogenesis of kidney	EGA4-2			
Proliferation of microvascular endothelial cells	EGA4-2	FN1, GAS6	FN1	FN1
Detachment of cervical cancer cell lines	EGA4-2	FN1	FN1	FN1

Delay in formation of actin stress fibers	EGA4-2	FN1	FN1	FN1
Release of specific granules	EGA4-2	FN1	FN1	FN1
Structural integrity of basement membrane	EGA4-2	COL4A1		
Anoikis of carcinoma cell lines	EGA4-2	COL4A1, FN1	FN1	FN1
Binding of carbohydrate	EGA4-2	FN1, GAS6	FN1	FN1
Ingestion of Streptococcus sp group A	EGA4-2	FN1	FN1	FN1
Formation of connective tissue	EGA4-2			
Accumulation of protein fragment	EGA4-2	FN1	FN1	FN1
Development of tail bud	EGA4-2	FN1	FN1	FN1
Differentiation of dorsal root ganglion cells	EGA4-2	ETV4		
Branching of oligodendrocytes	EGA4-2	GAS6		
Tubulation by sarcoma cell lines	EGA4-2			
Formation of atrioventricular canal cushion	EGA4-2	FN1	FN1	FN1
Formation of actin cytoskeleton	EGA4-2	FN1	FN1	FN1
Invasion of fibrosarcoma cell lines	EGA4-2	ETV4, FN1	FN1	FN1
Quantity of bone cells	EGA4-3			
Quantity of lymphocytes	EGA4-3			
Quantity of connective tissue cells	EGA4-3			
Binding of endothelial cells	EGA4-3			
Quantity of osteoblasts	EGA4-3			
Cell movement of sarcoma cell lines	EGA4-3			
Recruitment of cells	EGA4-3			
Differentiation of bone cells	EGA4-3			
Proliferation of liver cells	EGA4-3			
Cell movement of granulocytes	EGA4-3			
Proliferation of hepatic stellate cells	EGA4-3			
Survival of soft tissue	EGA4-3			
Transendothelial migration of leukocytes	EGA4-3			
Translocation of galactosylceramide	EGA4-3			
Expression of mRNA	EGA4-3			
Development of microvasculature	EGA4-3			
Destruction of cancer cells	EGA4-3			
Response of helper T lymphocytes	EGA4-3			
Delay in initiation of differentiation of lung cell lines	EGA4-3			
Cell viability of neuroglia	EGA4-3			
Development of bone marrow cells	EGA4-3			
Sequestration of cholesterol	EGA4-3			
Cell movement of endothelial cell lines	EGA4-3			
Cleavage of coumarin	EGA4-3			
Accumulation of granules	EGA4-3			
Relaxation of vascular smooth muscle cells	EGA4-3			
Migration of glioblastoma cells	EGA4-3			
Binding of splenocytes	EGA4-3			
Translocation of lactosylceramide	EGA4-3			
Stabilization of myelin sheath	EGA4-3			
Structure of myelin sheath	EGA4-3			
Polarization of lymphoma cell lines	EGA4-3			
Dissemination of diffuse large B-cell lymphoma cells	EGA4-3			
Proliferation of hepatic stellate cells/myofibroblasts	EGA4-3			
Cellular infiltration by granulocytes	EGA4-3			

Accumulation of lysosome	EGA4-3		
Cell movement of bone cancer cell lines	EGA4-3		
Clonal expansion of Th2 cells	EGA4-3		
Myelination	EGA4-3		
Cell death of type 1 macrophages	EGA4-3		
Cell death of exocrine cells	EGA4-3		
Adhesion of leukemia cell lines	EGA4-3		
Elongation of B lymphocytes	EGA4-3		
Size of T-cell zone	EGA4-3		
Survival of oligodendrocytes	EGA4-3		
Translocation of glucosylceramide	EGA4-3		
Dissemination of tumor cell lines	EGA4-3		
Elimination of red blood cells	EGA4-3		
Replicative senescence of fibroblast cell lines	EGA4-4		
Colony formation of breast cell lines	BL-Down-1		ID4
Development of gastrointestinal tract	BL-Down-1		
Mislocalization of melanosomes	BL-Down-1		
Weakness of dentin	BL-Down-1		
Depolarization of hair cells	BL-Down-1		
Synthesis of UDP-N-acetyl-D-galactosamine	BL-Down-1		
Development of stereocilia	BL-Down-1		
Transepithelial electrical resistance of breast cancer cell lines	BL-Down-1		ID1
Degradation of photoreceptors	BL-Down-1		
Cell survival of cardiomyocytes	BL-Down-1		FBXO32
Colony formation of epithelial cell lines	BL-Down-1		ID4
Activation of vascular endothelial cells	BL-Down-1		ID1
Movement of melanosomes	BL-Down-1		
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		
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
G1 phase of bone cancer cell lines	BL-Down-1		NPAT
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		
Blood pressure	BL-Down-1		STK39
Movement of organelle	BL-Down-1		
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