Appendx 1. Differential gene details

Name	Gene	Annotation
1	AVPR1A	Vasopressin V1a receptor; Receptor for arginine vasopressin. The
		activity of this receptor is mediated by G proteins which activate a
		phosphatidyl- inositol-calcium second messenger system.
2	BIRC3	Baculoviral IAP repeat-containing protein 3;Multi functional
	21100	protein which regulates not only caspases and apoptosis, but also
		modulates inflammatory signaling and immunity, mitogenic kinase
		signaling and cell proliferation, as well as cell invasion and
		metastasis.
3	CDKN1A	Cyclin-dependent kinase inhibitor 1;May be involved in p53/TP53
		mediated inhibition of cellular proliferation in response to DNA
		damage.Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase
		substrates and blocking cell cycle progression.
4	CLEC4D	C-type lectin domain family 4 member D; Functions as an endocytic
		receptor. May be involved in antigen uptake at the site of infection,
		either for clearance of the antigen, or for processing and further
		presentation to T cells.
5	CLEC4E	C-type lectin domain family 4 member E; C-type lectin that functions
		as cell-surface receptor for a wide variety of ligands such as damaged
		cells, fungi and mycobacteria. Plays a role in the recognition of pathogenic fungi, such as Candida albicans. The detection of
		mycobacteria is via trehalose 6,6'-dimycolate (TDM), a cell wall
		glycolipid.
6	CR1	Complement receptor type 1;Mediates cellular binding of particles
		and immune complexes that have activated complement.
7	DISP1	Protein dispatched homolog 1;Functions in hedgehog (Hh) signaling.
8	FI I 2	
		required to increase the catalytic rate of RNA polymerase II
		transcription by suppressing transient pausing by the polymerase at
		multiple sites along the DNA.
9	FAM171A1	Protein FAM171A1; Family with sequence similarity 171 member
10	FCN1	Ficolin-1; Extracellular lectin functioning as a pattern- recognition
		receptor in innate immunity. Binds the sugar moieties of
		pathogen-associated molecular patterns (PAMPs) displayed on
		microbes and activates the lectin pathway of the complement system.
8	DISP1  ELL2  FAM171A1	Complement receptor type 1;Mediates cellular binding of part and immune complexes that have activated complement.  Protein dispatched homolog 1;Functions in hedgehog (Hh) signal Regulates—the release—and—extracellular—accumulation—cholesterol-modified hedgehog proteins and is hence required effective production of the Hh signal (By similarity).  RNA polymerase—II—elongation—factor—ELL2;—Elongation—factomponent—of the super—elongation—complex (SEC),—a—component—of the super—elongation—complex (SEC)—a—component—of the super—elongation—component—of the super—elong

11	FPR1	fMet-Leu-Phe receptor; High affinity receptor for N-formyl-methionyl peptides (fMLP), which are powerful neutrophil chemotactic factors.
12	HPGD	15-hydroxyprostaglandin dehydrogenase [NAD(+)]; Prostaglandin inactivation. Contributes to the regulation of events that are under the control of prostaglandin levels.
13	IL18RAP	Interleukin-18 receptor accessory protein; Within the IL18 receptor complex, does not mediate IL18- binding, but involved in IL18-dependent signal transduction, leading to NF-kappa-B and JNK activation
14	IL1R2	Interleukin-1 receptor type 2; Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competetive binding to IL1B and preventing its binding to IL1R1.
15	MT1M	Metallothionein-1M; Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids.
16	MTHFD2	Bifunctional methylenetetrahydrofolate dehydrogenase /cyclohydrolase, mitochondrial; Although its dehydrogenase activity is NAD-specific, it can also utilize NADP at a reduced efficiency.
17	NAMPT	Nicotinamide phosphoribosyltransferase; Catalyzes the condensation of nicotinamide with 5- phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD.
18	PHLDA1	Pleckstrin homology-like domain family A member 1; Seems to be involved in regulation of apoptosis. May be involved in detachment-mediated programmed cell death. May mediate apoptosis during neuronal development.
19	PIK3R5	Phosphoinositide 3-kinase regulatory subunit 5; Regulatory subunit of the PI3K gamma complex. Required for recruitment of the catalytic subunit to the plasma membrane via interaction with beta-gamma G protein dimers.
20	PIM1	Serine/threonine-protein kinase pim-1; Proto-oncogene with serine/threonine kinase activity involved in cell survival and cell proliferation and thus providing a selective advantage in tumorigenesis.
21	PKP2	Plakophilin-2; May play a role in junctional plaques; Armadillo repeat containing
22	QPCT	Glutaminyl-peptide cyclotransferase; Responsible for the biosynthesis of pyroglutamyl peptides. Has a bias against acidic and tryptophan residues adjacent to the N-terminal glutaminyl residue and a lack of importance of chain length after the second residue.

23	S100A8	Protein S100-A8; S100A8 is a calcium- and zinc-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. It can induce neutrophil chemotaxis and adhesion.
24	CAMD5	
24	SAMD5	Sterile alpha motif domain containing 5
25	SAMSN1	SAM domain-containing protein SAMSN-1; Negative regulator of B-cell activation. Down-regulates cell proliferation (in vitro). Promotes RAC1-dependent membrane ruffle formation and reorganization of the actin cytoskeleton.
26	SLCO4A1	Solute carrier organic anion transporter family member 4A1; Mediates the Na(+)-independent transport of organic anions such as the thyroid hormones T3 (triiodo-L-thyronine), T4 (thyroxine) and rT3, and of estrone-3-sulfate and taurocholate.
27	SPSB1	SPRY domain-containing SOCS box protein 1; Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.
28	TBX3	T-box transcription factor TBX3; Transcriptional repressor involved in developmental processes.
29	THBS2	Thrombospondin-2; Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions.
30	TIPARP	TCDD-inducible poly [ADP-ribose] polymerase; Poly [ADP-ribose] polymerase using NAD(+) as a substrate to transfer ADP-ribose onto glutamic acid residues of a protein acceptor; repeated rounds of ADP-ribosylation leads to the formation of poly(ADPribose) chains on the protein, thereby altering the function of the target protein.
31	TNFAIP6	Tumor necrosis factor-inducible gene 6 protein; Possibly involved in cell-cell and cell-matrix interactions during inflammation and tumorigenesis
32	TNFRSF10D	Tumor necrosis factor receptor superfamily member 10D; Receptor for the cytotoxic ligand TRAIL. Contains a truncated death domain and hence is not capable of inducing apoptosis but protects against TRAIL-mediated apoptosis.
33	UAP1	UDP-N-acetylhexosamine pyrophosphorylase; Converts UTP and GlcNAc-1-P into UDP-GlcNAc, and UTP and GalNAc-1-P into UDP-GalNAc.
34	VNN1	Pantetheinase; Amidohydrolase that hydrolyzes specifically one of the carboamide linkages in D-pantetheine thus recycling pantothenic acid (vitamin B5) and releasing cysteamine; Belongs to the carbon-nitrogen hydrolase superfamily.