

Table S1. Functional annotation of DEGs in specific comparisons

Comparison	Profile	Biological process (from PANTHER GO-Slim)	Gene(s)	p-value
CAL-29 KA vs. KK	downregulated	Apoptotic mitochondrial changes	<i>HSPD1</i> <i>BNIP3L</i> <i>DNM1L</i>	7.47E-04
		Cell adhesion mediated by integrin	<i>ITGB6</i> <i>ITGB1</i>	1.85E-02
		Cell-cell adhesion	<i>HSPD1</i> <i>DSG2</i> <i>ANXA1</i> <i>DSG3</i> <i>TJP1</i> <i>LPP</i>	3.21E-02
		Apoptotic cleavage of cell adhesion proteins	<i>DSG2</i> <i>DSG3</i> <i>TJP1</i>	7.47E-04
		Downregulation of ERBB4 signaling	<i>ITCH</i> <i>NEDD4</i>	7.31E-03
		Regulation of activated PAK-2p34 by proteasome mediated degradation	<i>PSMD12</i> <i>PSMD14</i> <i>PSMC2</i> <i>PSMD1</i>	5.27E-03
		Negative regulation of NOTCH4 signaling	<i>PSMD12</i> <i>PSMD14</i> <i>PSMC2</i> <i>PSMD1</i>	6.41E-03
		Regulation of RUNX2 expression and activity	<i>PSMD12</i> <i>PSMD14</i> <i>STAT1</i> <i>PSMC2</i> <i>PSMD1</i>	3.17E-03
		Regulation of RAS by GAPs	<i>PSMD12</i> <i>PSMD14</i> <i>PSMC2</i> <i>PSMD1</i>	1.39E-02
	upregulated	Cell migration	<i>CCL2</i> <i>TNFAIP3</i> <i>CXCL8</i> <i>S100A9</i> <i>CXCL1</i>	1.08E-03
		Positive regulation of Wnt signaling pathway	<i>TNFAIP3</i> <i>SULF2</i>	3.43E-03
		Mitotic cell cycle	<i>CKS2</i> <i>CENPW</i> <i>PTTG1</i>	4.38E-02
CAL-29 KC vs. KK	downregulated	Blood vessel morphogenesis	<i>EFNB2</i> <i>THBS1</i>	4.78E-02
		Negative regulation of cell death	<i>EYA2</i> <i>AGR2</i> <i>APOE</i>	2.74E-02
		Downregulation of TGF-beta receptor signaling	<i>TGFB2</i> <i>PM2PA1</i> <i>BAMBI</i>	1.02E-03
		Integrin cell surface interactions	<i>COL5A2</i> <i>COL5A1</i>	3.12E-07

			COL4A2 COL4A1 FN1 COL7A1 THBS1 TNC	
		Collagen degradation	COL5A2 COL5A1 COL4A2 COL4A1 COL7A1	1.34E-04
	upregulated	Regulation of cell cycle	NUPR1 HBEGF PTTG1 PLK1 EREG	2.16E-02
		ERBB signaling pathway	HBEGF EREG	1.49E-02
		Regulation of cell growth	SLIT2 SEMA5A	2.66E-02
		Extracellular matrix organization	MME LAMB4 ADAMTSL4 SMOC1 MMP28	2.16E-03
		Cell migration	CXCL3 LAMB4 RHOF S100A9 SEMA5A S100A14	1.58E-02
		G2/M DNA damage checkpoint	H2BC13 H2BC5 H2BC11 H2BC17 H2BC15 H2BC21	3.96E-05
		Oncogene Induced Senescence	CDKN2A CDKN2B	2.81E-02
		Degradation of the extracellular matrix	MME FBN2 FBN1 CAPN8	2.30E-02
CAL-29 WK vs. KK	downregulated	Programmed cell death	HSPD1 CASP4 ANXA1 DDIT4 BNIP3 BEX2 BNIP3L HERPUD1 DDIT3 HYOU1	1.06E-03
		Positive regulation of angiogenesis	ANXA1 VEGFA	9.34E-03

		Negative regulation of intrinsic apoptotic signaling pathway	<i>HERPUD1</i> <i>HYOU1</i>	9.34E-03
		Positive regulation of mitotic cell cycle	<i>ANXA1</i> <i>AREG</i>	3.27E-02
		Apoptotic cleavage of cell adhesion proteins	<i>DSG3</i> <i>OCLN</i>	1.10E-02
		Negative regulation of NOTCH4 signaling	<i>PSMD14</i> <i>PSMC1</i> <i>PSMD1</i>	3.09E-02
		RAF/MAP kinase cascade	<i>ARTN</i> <i>PSMD14</i> <i>PSMC1</i> <i>MET</i> <i>DUSP4</i> <i>FN1</i> <i>PSMD1</i> <i>AREG</i>	1.05E-02
	upregulated	Response to tumor necrosis factor	<i>CCL2</i> <i>UBD</i> <i>CX3CL1</i>	1.53E-02
		Positive regulation of cell migration	<i>SEMA3F</i> <i>S100A14</i> <i>CLEC7A</i>	3.12E-02
		Negative regulation of mitotic cell cycle	<i>BTG2</i> <i>ZWINT</i> <i>PTTG1</i>	3.40E-02
		Positive regulation of apoptotic process	<i>PYDC1</i> <i>UBD</i> <i>DAPK1</i>	3.69E-02
		Cell population proliferation	<i>TBX3</i> <i>BTG2</i> <i>LYN</i> <i>STAT6</i> <i>CDK2</i> <i>PLA2G2A</i> <i>S100A13</i> <i>CLEC7A</i>	2.26E-03
		G2/M DNA damage checkpoint	<i>H2BC12</i> <i>H2BC4</i> <i>H2BC13</i> <i>H2BC5</i> <i>H2BC11</i> <i>H2BC9</i> <i>H2BC14</i> <i>H2BC3</i> <i>H2AX</i> <i>H2BC17</i> <i>H4C9</i> <i>H4C13</i> <i>H4C1</i> <i>H4C4</i> <i>H2BC15</i> <i>H2BC21</i>	4.36E-11
CAL-29 WA vs. WK	downregulated	Regulation of Notch signaling pathway	<i>GALNT11</i> <i>DLL1</i>	7.92E-03
		Cell Cycle, Mitotic	<i>H2BC12</i>	2.76E-14

			<i>H2AC7</i> <i>POLA2</i> <i>H2BC4</i> <i>LYN</i> <i>H2BC13</i> <i>H2AC20</i> <i>LIG1</i> <i>H2BC5</i> <i>H2BC11</i> <i>TYMS</i> <i>H2AC14</i> <i>INCENP</i> <i>H2BC9</i> <i>H2BC14</i> <i>H2BC3</i> <i>FOXM1</i> <i>H2BC17</i> <i>H3C12</i> <i>H4C9</i> <i>H4C13</i> <i>H4C1</i> <i>H4C4</i> <i>H4C3</i> <i>H2BC15</i> <i>H2BC21</i> <i>H2AC8</i> <i>CENPM</i>	
		G2/M DNA damage checkpoint	<i>H2BC12</i> <i>H2BC4</i> <i>H2BC13</i> <i>RMI2</i> <i>H2BC5</i> <i>H2BC11</i> <i>H2BC9</i> <i>H2BC14</i> <i>H2BC3</i> <i>H2BC17</i> <i>H4C9</i> <i>H4C13</i> <i>H4C1</i> <i>H4C4</i> <i>H4C3</i> <i>H2BC15</i> <i>H2BC21</i>	2.15E-14
	upregulated	Positive regulation of mitotic cell cycle	<i>HBEGF</i> <i>ANXA1</i> <i>AREG</i> <i>EREG</i>	5.13E-05
		Regulation of apoptotic signaling pathway	<i>HERPUD1</i> <i>HYOU1</i>	3.43E-02
		Regulation of epidermal growth factor receptor signaling pathway	<i>HBEGF</i> <i>AREG</i> <i>EREG</i>	5.83E-04
		Wound healing	<i>ANXA1</i> <i>ANXA6</i>	3.61E-02
		Positive regulation of cell population proliferation	<i>HBEGF</i> <i>ANXA1</i>	7.93E-03

CAL-29 WC vs. WK			AREG EREG	
		Extracellular matrix organization	COL5A1 MMP13 COL4A2 SULF2	1.81E-02
	downregulated	Negative regulation of mitotic cell cycle	BTG2 RBL2	3.29E-02
		Apoptotic process	CD74 PYDC1 UBD CRIP1	2.56E-02
		Negative regulation of cell population proliferation	BTG2 LGALS9 PLA2G2A	8.32E-04
		Negative regulation of MAP kinase activity	DUSP2 DUSP1	3.99E-03
		Positive regulation of apoptotic process	PYDC1 UBD	3.49E-02
	upregulated	Positive regulation of mitotic cell cycle	HBEGF RANBP1 AREG	1.75E-03
		Cell population proliferation	CAV2 HBEGF ZPR1 TGFB2 RTKN2 MYC CAV1 S100A13 AREG	1.97E-04
		Transforming growth factor beta receptor signaling pathway	TGFB2 PMEPA1 ZYX	4.82E-03
		ERBB signaling pathway	HBEGF AREG	2.61E-02
		Mitotic cell cycle process	CCNB1 TUBB HBEGF CKS2 CENPW TUBA4A TUBB2A TUBB4B RANBP1 RTKN2 MAD2L1 TUBA1A TUBA1B SKA1 PLK1 TUBB3 TUBA1C AREG	7.44E-10
		Extracellular matrix organization	HAS3 COL5A1	2.55E-04

			<i>MMP13</i> <i>MMP9</i> <i>COL4A2</i> <i>COL4A1</i> <i>SULF2</i>	
		Positive regulation of cell population proliferation	<i>HBEGF</i> <i>RTKN2</i> <i>MYC</i> <i>S100A13</i> <i>AREG</i>	2.78E-03
		Wnt signaling pathway	<i>DKK1</i> <i>DKK3</i> <i>WNT4</i> <i>SULF2</i>	4.00E-02
		Degradation of the extracellular matrix	<i>COL5A1</i> <i>LAMC2</i> <i>KLK7</i> <i>MMP13</i> <i>MMP9</i> <i>COL4A2</i> <i>COL4A1</i>	7.47E-04
HT-1376 KA vs. KK	downregulated	Endothelial cell migration	<i>S100P</i>	6.78E-03
		Cell death signalling via NRAGE, NRIF and NADE	<i>MCF2L</i>	3.68E-02
		Crosslinking of collagen fibrils	<i>LOXL4</i>	9.18E-03
		Pre-NOTCH Expression and Processing	<i>ELF3</i>	3.77E-02
		Extracellular matrix organization	<i>ELF3</i> <i>LOXL4</i>	1.28E-02
		Positive regulation of apoptotic process	<i>TXNIP</i> <i>MCF2L</i>	2.89E-02
		Transmembrane receptor protein tyrosine kinase signaling pathway	<i>TXNIP</i> <i>ATP6V1B1</i>	2.56E-02
	upregulated	Cell migration	<i>CCL2</i> <i>FSCN1</i> <i>TUBB2A</i>	1.28E-02
		p130Cas linkage to MAPK signaling for integrins	<i>FN1</i>	2.91E-02
		Integrin binding	<i>CCN1</i> <i>FN1</i>	2.11E-03
		Regulation of cell population proliferation	<i>CCL2</i> <i>EGR1</i> <i>TGM2</i> <i>MAL</i> <i>FGFBP1</i> <i>IL24</i> <i>SGK1</i> <i>CCN1</i> <i>SERPINE2</i> <i>DHRS2</i> <i>DDAH1</i> <i>FN1</i> <i>FOSL1</i>	5.12E-06
		Angiogenesis	<i>CCL2</i> <i>CCN1</i> <i>FN1</i>	2.19E-02
		Regulation of cell adhesion	<i>CCL2</i> <i>TGM2</i> <i>CCN1</i>	1.02E-02

			<i>SERPINE2</i> <i>FN1</i>	
		Regulation of growth	<i>SGK1</i> <i>STC2</i> <i>SERPINE2</i> <i>MT1G</i> <i>FN1</i>	7.82E-03
		Positive regulation of apoptotic process	<i>CCL2</i> <i>TGM2</i> <i>FOSL1</i> <i>MAL</i>	1.96E-02
		Positive regulation of I-kappaB kinase/NF-kappaB signaling	<i>TGM2</i> <i>MAL</i>	4.69E-02
		Extracellular matrix organization	<i>CCN1</i> <i>KLK5</i> <i>FN1</i>	2.95E-02
		Regulation of cell growth	<i>SGK1</i> <i>SERPINE2</i> <i>FN1</i>	4.23E-02
HT-1376 KC vs. KK	downregulated	Glial cell proliferation	<i>CLU</i>	2.42E-02
		Positive regulation of fibroblast apoptotic process	<i>BTG1</i>	1.22E-02
		Regulation of cell population proliferation	<i>CLU</i> <i>BTG1</i> <i>HTRA1</i> <i>ATOH8</i> <i>ZNF703</i> <i>CTSH</i>	2.25E-02
		Regulation of transforming growth factor beta receptor signaling pathway	<i>HTRA1</i> <i>ZNF703</i>	1.24E-02
		Positive regulation of cell migration	<i>ATOH8</i> <i>ZNF703</i> <i>CTSH</i>	3.37E-02
	upregulated	Regulation of cell-cell adhesion	<i>CD74</i> <i>ADAM8</i> <i>CCL2</i> <i>TNF</i> <i>CD70</i> <i>ANXA1</i> <i>PODXL</i> <i>LGALS1</i> <i>TGFB1</i> <i>PYCARD</i> <i>ICAM1</i> <i>IGFBP2</i> <i>CEBPB</i> <i>ZC3H12A</i>	1.70E-07
		Regulation of cell migration	<i>CD74</i> <i>ADAM8</i> <i>CCL2</i> <i>GLIPR2</i> <i>TNF</i> <i>ANXA1</i> <i>LAMA3</i> <i>PODXL</i> <i>GAS6</i> <i>IL24</i>	4.76E-09

			<i>ITGB1</i> <i>MYLK</i> <i>TGFB1</i> <i>S100A7</i> <i>PYCARD</i> <i>ICAM1</i> <i>HIF1A</i> <i>SOD2</i> <i>CEMIP</i> <i>ZC3H12A</i> <i>TGFBR1</i> <i>SEMA3C</i>	
		Negative regulation of endothelial cell-matrix adhesion via fibronectin	<i>MME</i>	1.10E-02
		Negative regulation of cell adhesion	<i>CD74</i> <i>MME</i> <i>ANXA1</i> <i>PODXL</i> <i>LGALS1</i> <i>TGFB1</i> <i>CEBPB</i> <i>ZC3H12A</i>	2.15E-04
		Negative regulation of apoptotic process	<i>CD74</i> <i>ADAM8</i> <i>CCL2</i> <i>TNF</i> <i>ANXA1</i> <i>GAS6</i> <i>ITGB1</i> <i>CHST11</i> <i>IER3</i> <i>ICAM1</i> <i>SERPINB2</i> <i>HIF1A</i> <i>SOD2</i> <i>DHRS2</i> <i>SOCS3</i> <i>FCMR</i> <i>CEBPB</i> <i>MT1G</i> <i>ZC3H12A</i> <i>TGFBR1</i> <i>ITGA5</i> <i>PLK3</i>	6.78E-09
		Cell migration	<i>CD74</i> <i>ADAM8</i> <i>MME</i> <i>S100A2</i> <i>CCL2</i> <i>CXCL3</i> <i>TNF</i> <i>FSCN1</i> <i>ANXA1</i> <i>SAA1</i> <i>LAMA3</i> <i>PODXL</i> <i>GAS6</i>	1.44E-10

			<i>TUBB2A</i> <i>ITGB1</i> <i>TGFB1</i> <i>ANXA6</i> <i>S100A9</i> <i>ICAM1</i> <i>HIF1A</i> <i>S100A8</i> <i>PSG1</i> <i>TGFBR1</i> <i>SEMA3C</i> <i>ITGA5</i>	
		Wound healing	<i>MME</i> <i>SERPINA1</i> <i>SAA1</i> <i>GAS6</i> <i>IL24</i> <i>TGFB1</i> <i>ANXA6</i> <i>SERPINB2</i> <i>HIF1A</i> <i>S100A8</i> <i>TGFBR1</i> <i>ITGA5</i>	7.30E-06
		Cell adhesion mediated by integrin	<i>ITGB1</i> <i>ICAM1</i> <i>ITGA5</i>	4.32E-04
		angiogenesis	<i>ADAM8</i> <i>CCL2</i> <i>TYMP</i> <i>SAT1</i> <i>ITGB1</i> <i>S100A7</i> <i>COL8A1</i> <i>HIF1A</i> <i>ZC3H12A</i> <i>TGFBR1</i> <i>ITGA5</i>	2.39E-06
		Regulation of extracellular matrix organization	<i>FSCN1</i> <i>TGFB1</i>	2.44E-02
		Positive regulation of programmed cell death	<i>ADAM8</i> <i>CCL2</i> <i>TNF</i> <i>UBD</i> <i>TGM2</i> <i>ANXA1</i> <i>ITGB1</i> <i>TGFB1</i> <i>S100A9</i> <i>INHBA</i> <i>PYCARD</i> <i>SOD2</i> <i>S100A8</i> <i>ZC3H12A</i> <i>TGFBR1</i>	7.38E-07
		Regulation of epithelial to mesenchymal transition	<i>GLIPR2</i> <i>TGFB1</i>	1.56E-02

			<i>TGFB1</i>	
		Regulation of intrinsic apoptotic signaling pathway	<i>CD74</i> <i>S100A9</i> <i>PYCARD</i> <i>HIF1A</i> <i>SOD2</i> <i>S100A8</i>	3.48E-04
		Positive regulation of SMAD protein signal transduction	<i>TGFB1</i> <i>TGFB1</i>	4.34E-03
		Extrinsic apoptotic signaling pathway	<i>TNF</i> <i>CD70</i> <i>TGFB1</i> <i>INHBA</i> <i>LCN2</i> <i>IFI27</i>	2.39E-05
		Negative regulation of anoikis	<i>ITGB1</i> <i>ITGA5</i>	5.35E-03
		Positive regulation of NF-kappaB transcription factor activity	<i>ADAM8</i> <i>TNF</i> <i>TGFB1</i> <i>S100A9</i> <i>PYCARD</i> <i>ICAM1</i> <i>S100A8</i>	4.37E-05
		Negative regulation of tumor necrosis factor production	<i>GAS6</i> <i>ZC3H12A</i>	4.07E-02
		Activation of MAPK activity	<i>CD74</i> <i>TNF</i> <i>SAA1</i> <i>INAVA</i>	1.19E-02
		Regulation of cell growth	<i>TGFB1</i> <i>S100A9</i> <i>INHBA</i> <i>S100A8</i> <i>TGFB1</i> <i>SEMA3C</i>	3.02E-02
HT-1376 WK vs. KK	downregulated	Positive regulation of epithelial to mesenchymal transition	<i>TGFB2</i> <i>ZNF703</i> <i>CTNNB1</i>	6.55E-03
		Regulation of programmed cell death	<i>TNFSF10</i> <i>CLU</i> <i>MTRNR2L2</i> <i>MTRNR2L12</i> <i>TXNIP</i> <i>PPIA</i> <i>FHL2</i> <i>MTRNR2L8</i> <i>DAPK1</i> <i>UBC</i> <i>PPT1</i> <i>PLAC8</i> <i>SCIN</i> <i>TGFB2</i> <i>SON</i> <i>CRYAB</i> <i>HPGD</i>	4.02E-08

			<i>ADAMTSL4</i> <i>BEX2</i> <i>LDHA</i> <i>TIMP3</i> <i>CTNNB1</i> <i>EIF2AK4</i> <i>CITED2</i> <i>PDIA3</i> <i>NONO</i> <i>SEMA5A</i> <i>PARP1</i> <i>SKP2</i> <i>PLAC8</i>	
		Negative regulation of cell cycle	<i>ZNF207</i> <i>RBBP4</i> <i>TGFB2</i> <i>HPGD</i> <i>SKP1</i> <i>CHMP4C</i> <i>CTNNB1</i> <i>EIF2AK4</i> <i>TFDP2</i> <i>HSP90AB1</i>	1.28E-02
		Transforming growth factor beta receptor signaling pathway	<i>UBC</i> <i>TGFBR3</i> <i>TGFB2</i> <i>HPGD</i> <i>CITED2</i> <i>PARP1</i>	1.38E-04
		Regulation of cell cycle process	<i>PRC1</i> <i>TPX2</i> <i>KIF20A</i> <i>ZNF207</i> <i>RACGAP1</i> <i>RBBP4</i> <i>ADAMTS1</i> <i>HNRNPU</i> <i>CALM1</i> <i>SKP1</i> <i>CHMP4C</i> <i>CTNNB1</i> <i>TFDP2</i> <i>HSP90AB1</i>	2.23E-03
		Positive regulation of cell population proliferation	<i>PRC1</i> <i>ADAMTS1</i> <i>HTRA1</i> <i>HNRNPU</i> <i>TGFBR3</i> <i>TGFB2</i> <i>HPGD</i> <i>ZNF703</i> <i>CTNNB1</i> <i>SEMA5A</i> <i>CD55</i> <i>SKP2</i> <i>PLAC8</i>	3.24E-02
		Negative regulation of cell cycle process	<i>ZNF207</i>	4.02E-02

			<i>RBBP4</i> <i>SKP1</i> <i>CHMP4C</i> <i>TFDP2</i> <i>HSP90AB1</i>	
		Cell growth	<i>SEMA3F</i> <i>CTNNB1</i> <i>EIF2AK4</i> <i>SEMA5A</i> <i>HSP90AB1</i>	8.09E-04
		Regulation of intrinsic apoptotic signaling pathway	<i>CLU</i> <i>PPIA</i> <i>NONO</i> <i>PARP1</i>	3.68E-02
		Positive regulation of cell size	<i>PRR16</i> <i>HSP90AB1</i>	4.76E-03
		Positive regulation of transforming growth factor beta receptor signaling pathway	<i>TGFB3</i> <i>CITED2</i> <i>HSP90AB1</i>	1.73E-03
		Extracellular structure organization	<i>COL12A1</i> <i>ADAMTS1</i> <i>HTRA1</i> <i>LAMB4</i> <i>TGFB2</i> <i>ADAMTSL4</i> <i>FBN2</i> <i>FBN1</i> <i>LOXL4</i>	2.00E-03
		Wnt signaling pathway, calcium modulating pathway	<i>CALM1</i> <i>CTNNB1</i>	3.27E-02
		Negative regulation of cell population proliferation	<i>RBBP4</i> <i>ADAMTS1</i> <i>SCIN</i> <i>ATP5F1A</i> <i>TGFB3</i> <i>TGFB2</i> <i>ATOH8</i> <i>P3H2</i> <i>CTNNB1</i> <i>IGFBP7</i> <i>CITED2</i> <i>ASCL2</i>	1.16E-02
		Positive regulation of epithelial cell migration	<i>ATP5F1A</i> <i>TGFB2</i> <i>ATOH8</i> <i>SEMA5A</i>	2.97E-02
		Angiogenesis	<i>GJA5</i> <i>TGFB3</i> <i>THSD7A</i> <i>CTNNB1</i> <i>CLIC4</i> <i>SEMA5A</i>	3.74E-02
	upregulated	Negative regulation of MAPK cascade	<i>DUSP2</i> <i>DUSP6</i> <i>LIF</i> <i>TNIP1</i>	2.28E-03

			<i>DUSP4</i> <i>DUSP7</i> <i>EPHB2</i>	
		Negative regulation of apoptotic signaling pathway	<i>BID</i> <i>CD74</i> <i>PLAUR</i> <i>TNFAIP3</i> <i>CSF2</i> <i>WNT4</i> <i>MMP9</i> <i>THBS1</i>	2.93E-03
		Negative regulation of meiotic cell cycle	<i>OVOL1</i> <i>LIF</i>	1.51E-02
		Negative regulation of cell migration	<i>CD74</i> <i>CARD10</i> <i>ADGRG1</i> <i>IL24</i> <i>IGFBP3</i> <i>WNT4</i> <i>KRT16</i> <i>ALOX15B</i> <i>THBS1</i>	2.03E-03
		Regulation of extracellular matrix organization	<i>SOX9</i> <i>FSCN1</i> <i>TNFRSF1B</i>	1.01E-02
		Regulation of angiogenesis	<i>TNFAIP3</i> <i>VEGFA</i> <i>HMGA2</i> <i>C3</i> <i>CXCL8</i> <i>TWIST1</i> <i>ALOX5</i> <i>ZC3H12A</i> <i>THBS1</i> <i>F3</i> <i>NMB</i>	1.84E-04
		Negative regulation of sprouting angiogenesis	<i>ALOX5</i> <i>THBS1</i>	7.15E-03
		Negative regulation of MAP kinase activity	<i>DUSP2</i> <i>DUSP6</i> <i>DUSP4</i> <i>DUSP7</i>	8.73E-03
		Positive regulation of extrinsic apoptotic signaling pathway	<i>BID</i> <i>INHBA</i> <i>PYCARD</i> <i>G0S2</i> <i>THBS1</i> <i>MAL</i>	2.15E-05
		Negative regulation of cell migration involved in sprouting angiogenesis	<i>CARD10</i> <i>THBS1</i>	1.21E-02
		Mesenchymal to epithelial transition	<i>ALOX5</i> <i>ALOX15B</i>	1.36E-02
		Intrinsic apoptotic signaling pathway	<i>DDIT4</i> <i>CDKN1A</i> <i>TNFRSF1B</i> <i>PYCARD</i>	4.92E-03

			<i>IKBKE</i> <i>CEBPB</i>	
		Positive regulation of extracellular matrix organization	<i>LIF</i> <i>INHBA</i>	2.36E-02
		Extracellular matrix disassembly	<i>ADAM8</i> <i>MMP2</i> <i>KLK7</i> <i>MMP9</i> <i>KLK5</i>	7.11E-04
		Extrinsic apoptotic signaling pathway	<i>BID</i> <i>CD70</i> <i>TNFRSF1B</i> <i>INHBA</i> <i>LCN2</i> <i>GOS2</i> <i>IFI27</i>	8.71E-05
		Extracellular matrix assembly	<i>HAS3</i> <i>COL1A2</i>	4.49E-02
		Positive regulation of angiogenesis	<i>VEGFA</i> <i>HMGA2</i> <i>C3</i> <i>CXCL8</i> <i>TWIST1</i> <i>ZC3H12A</i> <i>THBS1</i> <i>F3</i>	2.64E-04
		Positive regulation of tumor necrosis factor production	<i>MAL</i> <i>PYCARD</i> <i>TWIST1</i> <i>THBS1</i>	1.20E-02
		Positive regulation of NF-kappaB transcription factor activity	<i>ADAM8</i> <i>MAL</i> <i>IRAK2</i> <i>NFKB2</i> <i>S100A9</i> <i>PYCARD</i> <i>S100A8</i>	1.60E-03
		Cell cycle arrest	<i>CD74</i> <i>MAL</i> <i>VEGFA</i> <i>S100A7</i> <i>JUN</i> <i>PYCARD</i> <i>NMB</i>	5.86E-03
HT-1376 WA vs. WK	downregulated	Negative regulation of epithelial cell proliferation	<i>SOX9</i> <i>EFNB2</i> <i>ALOX5</i> <i>THBS1</i>	4.71E-02
		Negative regulation of growth hormone receptor signaling pathway	<i>GDF15</i>	8.74E-04
		Extrinsic apoptotic signaling pathway	<i>LCN2</i>	2.85E-02
		SMAD protein signal transduction	<i>GDF15</i>	1.82E-02
		Transforming growth factor beta receptor signaling pathway	<i>GDF15</i>	2.88E-02
		Positive regulation of MAPK cascade	<i>S100A7</i> <i>GDF15</i>	9.18E-03

	upregulated	Negative regulation of apoptotic process	<i>CCL2</i> <i>UBC</i> <i>GAS6</i> <i>CTNNB1</i> <i>MT1G</i> <i>THBS1</i>	2.57E-03
		Regulation of cell population proliferation	<i>CCNB1</i> <i>CCL2</i> <i>GAS6</i> <i>ATP5F1A</i> <i>TPM1</i> <i>CTNNB1</i> <i>GSDME</i> <i>THBS1</i> <i>TNC</i>	7.56E-04
		Canonical Wnt signaling pathway involved in positive regulation of epithelial to mesenchymal transition	<i>CTNNB1</i>	4.65E-03
		Negative regulation of cell cycle	<i>CCNB1</i> <i>CCL2</i> <i>CTNNB1</i> <i>THBS1</i>	1.19E-02
		Canonical Wnt signaling pathway involved in negative regulation of apoptotic process	<i>CTNNB1</i>	6.19E-03
		Negative regulation of cell population proliferation	<i>CCL2</i> <i>ATP5F1A</i> <i>TPM1</i> <i>CTNNB1</i> <i>GSDME</i> <i>THBS1</i>	6.56E-04
		Regulation of apoptotic signaling pathway	<i>CTNNB1</i> <i>PARP1</i> <i>GSDME</i> <i>THBS1</i>	2.30E-03
		Positive regulation of apoptotic process	<i>CCL2</i> <i>UBC</i> <i>CTNNB1</i> <i>GSDME</i> <i>THBS1</i>	1.65E-03
		Negative regulation of angiogenesis	<i>CTNNB1</i> <i>THBS1</i>	1.19E-02
		Mitotic cell cycle process	<i>CCNB1</i> <i>CCNJL</i> <i>RAN</i> <i>STMN1</i>	2.01E-02
		Positive regulation of immune response to tumor cell	<i>GSDME</i>	2.30E-02
		Positive regulation of SMAD protein signal transduction	<i>PARP1</i>	2.61E-02
		Angiogenesis	<i>CCL2</i> <i>PRCP</i> <i>CTNNB1</i> <i>THBS1</i>	1.57E-03
		Necrotic cell death	<i>GSDME</i>	4.70E-02
		Extracellular matrix organization	<i>GAS6</i> <i>THBS1</i> <i>TNC</i>	1.88E-02

		Negative regulation of G1/S transition of mitotic cell cycle	<i>CCNB1</i> <i>CCL2</i>	1.24E-02
		Positive regulation of MAPK cascade	<i>CCL2</i> <i>UBC</i> <i>GAS6</i> <i>CTNNB1</i> <i>GSDME</i> <i>CAP1</i> <i>THBS1</i>	1.42E-05
HT-1376 WC vs. WK	downregulated	Positive regulation of apoptotic signaling pathway	<i>CTSC</i>	1.85E-02
		Cell killing	<i>CTSC</i>	1.74E-02
		Positive regulation of inflammatory response	<i>CTSC</i>	2.04E-02
		Negative regulation of myelination	<i>CTSC</i>	1.16E-03
	upregulated	Negative regulation of apoptotic process	<i>CLU</i> <i>MTRNR2L2</i> <i>MTRNR2L12</i> <i>MTRNR2L8</i> <i>GAS6</i>	7.20E-03
		Negative regulation of execution phase of apoptosis	<i>MTRNR2L2</i> <i>MTRNR2L12</i> <i>MTRNR2L8</i>	5.71E-06
		Cell adhesion	<i>L1CAM</i> <i>GAS6</i> <i>BCAM</i> <i>ROBO3</i>	3.79E-02
		Regulation of tumor necrosis factor production	<i>CLU</i> <i>GAS6</i>	1.67E-02
		Positive regulation of I-kappaB kinase/NF-kappaB signaling	<i>UBD</i> <i>S100A4</i>	2.68E-02