# RT<sup>2</sup> Profiler PCR Array (Rotor-Gene® Format) Human WNT Signaling Pathway

#### Cat. no. 330231 PAHS-243ZR

#### For pathway expression analysis

Format	For use with the following real-time cyclers
RT <sup>2</sup> Profiler PCR Array,	Rotor-Gene Q, other Rotor-Gene cyclers
Format R	

#### Description

The Human WNT Signaling Targets RT<sup>2</sup> Profiler PCR Array profiles the expression of 84 key genes responsive to WNT signal transduction. The WNT family of secreted growth factors regulates development and differentiation as well as general cell maintenance processes such as migration and cell cycle regulation. The WNT ligands bind to Frizzled (FZD) receptor family members and activate one of three WNT pathways: the canonical pathway, planar cell polarity (PCP), and a calcium ion-dependent pathway. The well-studied and better characterized canonical WNT pathway signals through B-catenin and regulates cell cycle, cell growth, and proliferation. Dysregulation of the canonical WNT signal transduction pathway is associated with cancer and developmental diseases. Many target genes of the canonical WNT pathway have been identified using experimental techniques such as chromatin immunoprecipitation (ChIP) and gene expression studies, while similar analyses for the PCP and a calcium ion-dependent pathways have yet be performed. This array includes WNT canonical signaling pathway transcription factors and highly relevant target genes identified by multiple studies. Results obtained with this array can be used to analyze activation or inhibition of WNT signaling. Using real-time PCR, research studies can easily and reliably analyze the expression of a focused panel of genes involved in WNT-regulated cellular processes with this array.

For further details, consult the RT<sup>2</sup> Profiler PCR Array Handbook.

#### Shipping and storage

RT<sup>2</sup> Profiler PCR Arrays in the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

For long term storage, keep plates at -20°C.

**Note:** Ensure that you have the correct RT<sup>2</sup> Profiler PCR Array format for your real-time cycler (see table above).

Note: Open the package and store the products appropriately immediately on receipt.



Sample & Assay Technologies

### Array layout

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc<sup>™</sup> (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

## Gene table: RT<sup>2</sup> Profiler PCR Array

A01     Hs.48903     NM.00027     ABCB1     ATP-binding cossets, sub-family B (MDR/AP), member 1       A02     Hs.17189     NM.001221     ANR     Ang (M) Instant	Position	UniGene	GenBank	Symbol	Description
A02     Hs.171.189     NM. 001328/2     AHR     Anyl popolismin-like 4       A03     Hs.9613     NM. 001386/2     ANOR14     Anglopolismin-like 4       A04     Hs.16589     NM. 011813     ANTRI     Anthran toxin receptor 1       A05     Hs.15527     NM. 004555     XMR2     Bore germes-schooglydemete (glo protein       A07     Hs.254341     NM, 001168     BBCS     Bore germes-schooglydemete (glo protein       A08     Hs.68879     NM, 033351     BMP4     Bore morphogenetic protein 4       A09     Hs.44802     NM, 033537     BTC     Bete thromadurin appeat containing       A11     Hs.238252     NM, 033537     BTC     Calcium chonnel, voltage-dependent, opha 2/della subunit 3       A12     Hs.23627     NM, 001759     CCND1     Colcium chonnel, voltage-dependent, loghthol 1, bit bit CDK4       B22     Hs.4 61080     NM, 004592     CCND2     CQ41- dependent in 1, yre 1, I, Scadenni regither       B23     Hs.4 61080     NM, 004592     CCDN1     Colcium chonnels (mean indepindent) feather       B24     Hs.30343     NM, 001692     CCDN1     Colciun chonnelse (me	A01	Hs.489033	NM_000927	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1
A03     Hs.9613     NM.00103967     ANCPTL4     Angpositin-like 4       A04     Hs.156359     NM.0011513     ANTR1     Anthrax toxin receptor 1       A05     Hs.156527     NM.001655     ANTR1     Barray manuscriboogularmote (gh) protein       A06     Hs.25837     NM.001188     BRC2     Bore genoma-corboogularmote (gh) protein       A07     Hs.258307     NM.001188     BRC2     Baculovical IAP repeat containing 5       A08     Hs.64802     NM.001398     CACNA2D3     Caclum-chonenetic protein 4       A10     Hs.64302     NM.001595     CCNA2D3     Caclum-chonenetic protein 4       A11     Hs.520238     NM.000179     CCNA2D3     Caclum-chonenetic protein 1, hyme 1, F. cachinari, canonal call inhibits       B02     Hs.61099     NM.001597     CDN1     Caclum-choneneting protein (CEBP), delta       B03     Hs.51299     NM.001592     CEBPD     Cachantomore binding growth incore       B04     Hs.30244     NM.001592     CEBPD     Cachantomore binding growth incore       B05     Hs.40499     NM.001592     CEBPD     Cachantomore binding growth incore	A02	Hs.171189	NM_001621	AHR	Aryl hydrocarbon receptor
A04     Hs.16559     NM.018153     ANTR81     Anthrea toxin receptor 1       A05     Hs.15557     NM.040455     AKIN2     Bore garma-carboxglubanck [gl protein       A06     Hs.65451     NM.010851     BKR2     Bore garma-carboxglubanck [gl protein       A07     Hs.6547     NM.010851     BKR2     Bore morphogenetic protein 4       A08     Hs.63802     NM.013837     CACNAD33     Colcium channel, voltage-depandent, lighta 2/delta subunit 3       A10     Hs.636627     NM.013899     CACNAD33     Colcium channel, voltage-depandent, lighta 2/delta subunit 3       A11     Hs.539352     NM.003050     CCND1     Cyclin D2     Cyclin D2       B01     Hs.509218     NM.000510     CDH4     CDd44 molecule (Indoin blood group)       B02     Hs.401066     NM.00107     CDKX2A     Cyclin-depandent kioase inhibitor 72 (melonome, pl 6, inhibits CDK4)       B04     Hs.28044     NM.00107     CDKX2A     Cyclin-depandent kioase inhibitor 72 (melonome, mouse)       B05     Hs.291346     NM.00181     CUBN     Cubitin (intrinsic factor-cobalomin neceptor       B06     Hs.291346     NM.0010142 </td <td>A03</td> <td>Hs.9613</td> <td>NM_001039667</td> <td>ANGPTL4</td> <td>Angiopoietin-like 4</td>	A03	Hs.9613	NM_001039667	ANGPTL4	Angiopoietin-like 4
A05     Hs.156527     NN.004655     AXIN2     Axin 2       A06     Hs.56341     NN.001168     BICAP     Bone garma-carboxyglubanda (glol protein       A07     Hs.25830     NN.001168     BIRC5     Boculorrial IAP repert contrains 5       A08     Hs.648800     NN.033057     BITS     Beta-framaducia repeat contrains 6       A10     Hs.64687     NN.030555     CCND1     Cyclin D1       A11     Hs.376071     NN.030516     CCND2     Cyclin D2       B01     Hs.370217     NN.000799     CDV2     Cyclin D2       B02     Hs.437001     NN.000790     CDV2     Cyclin-dependent knoss inhibitor 2A (malonoma, p16, inhibits CDK4)       B03     Hs.152599     NN.000701     CCRAF     Cyclin-dependent knoss inhibitor 2A (malonoma, p16, inhibits CDK4)       B04     Hs.30204     NN.001018     CUBN     CuBN     Cyclin-dependent knoss inhibitor 1A (malonoma, p16, inhibits CDK4)       B06     Hs.40498     NN.001143     DA82     Disobled homolog 1, knoss grows phosphoprotein (Drosophilo)       B07     Hs.140200     NN.001343     DA82     Disobled phomolog 1 (knosops co	A04	Hs.165859	NM_018153	ANTXR1	Anthrax toxin receptor 1
A06     Hs.65451     NM. 1997     BCLP     Bone gamma-carboxglutamat (glup rotain hs.72893)       A07     Hs.72893     NM. 00163     BIRC5     Baculovicul IV Propert containing 5       A08     Hs.6887     NM. 038051     BIRC5     Baculovicul IV Propert containing 5       A10     Hs.658687     NM. 038056     CACNA2D3     Calcium channel, voltage-dependent, elpho 2/delta subunit 3       A11     Hs.25821     NM. 038056     CCND2     Cyclin D1       A11     Hs.25821     NM. 038056     CCND2     Cyclin D2       B01     Hs.401860     NM. 000179     CCND2     Cyclin-dependent kinass inhibitor 2A (melanone, p16, inhibits CDK4)       B02     Hs.401862     NM. 000570     CDN1     Calch Introlog (mouse)       B03     Hs.51259     NM. 001691     CUBN     Calch Introlog (mouse)       B04     Hs.39034     NM. 016952     CDON     CCAT/rethorare binding protein (C/EBP, delta       B06     Hs.40829     NM. 001618     CUBN     Caunactive tasse growth factor       B07     Hs.168206     NM. 010181     CUBN     Caunactin tasse growth factor       <	A05	Hs.156527	NM_004655	AXIN2	Axin 2
A07     Hs.728839     NM.001168     BIRCS     Baculorial IAP repet centraling 5       A08     Hs.68879     NM.03051     BITA     Beta-transducin repeat containing 5       A10     Hs.648802     NM.03057     BITA     Beta-transducin repeat containing 5       A11     Hs.566687     NM.03059     CCNU20     Colcium channel, values-dependent, lapha 2/della suburit 3       A11     Hs.566687     NM.000759     CCND2     Cptin D1       B01     Hs.502328     NM.0000710     CD44     CD44 molecule (Indon blood group)       B02     Hs.461086     NM.0000710     CD44     Cptin-dependent kines inhibitor 2A (Indonenna, p16, inhibits CDK4)       B03     Hs.122999     NM.000070     CDKN2A     Cytin-dependent kines inhibitor 2A (Indonena, p16, inhibits CDK4)       B04     Hs.30204     NM.00101     CTGF     Connecive issue growth fodor       B05     Hs.404989     NM.001143     DA82     Disobled homolog 1, (Indones ichacing hopenetic nClose)       B07     Hs.164200     NM.001242     Disobled homolog 2, intiggen-response phosphoprohin (Drosophila)       B10     Hs.53277     NM.003030     DVK1	A06	Hs.654541	NM_199173	BGLAP	Bone gamma-carboxyglutamate (gla) protein
A08     Hs.68879     NM. 30851     BMP4     Bone morphogenetic protein 4       A09     Hs.643802     NM. 038378     BTRC     Beth-frankdurin repert containing       A11     Hs.632852     NM. 018379     CACNA2D3     Calcium channel, voitage-dependent, oitha J/b at //b	A07	Hs.728893	NM_001168	BIRC5	Baculoviral IAP repeat containing 5
A09     Hs.643802     NM. 013382     BTRC     Beta-transducin repert containing       A10     Hs.656687     NM. 018398     CACNA2D3     Calcium channel, voltege-dependent, alpha 2/delta subunit 3       A11     Hs.5376071     NM. 001759     CCND2     Cyclin D1       A12     Hs.376071     NM. 001759     CCND2     Cyclin D2       B01     Hs.50228     NM.000870     CCH4     CCd44 molecule (Indian blood group)       B02     Hs.41028     NM.000870     CDK14     Codement kinase inkinkino ZA (melanome, p.16, inkihki CDK4)       B03     Hs.512599     NM.001952     CCDN     Cdon homolog (mouse)       B05     Hs.44022     NM.001901     CTGF     Connective fissue groups (hardow factor cobelamin receptor)       B06     Hs.53717     NM.001343     DAB2     Disabled homolog 2, milogen-responsive phosphoprotein (Drosophila)       B07     Hs.481980     NM.001343     DAB2     Disabled homolog 1 (kenopus lewsi)       B10     Hs.533717     NM.002828     DK1     Deherlike 1 homolog (Drosophila)       B11     Hs.533717     NM.002828     EFR     Epdyrmhr sepone 1 <td>A08</td> <td>Hs.68879</td> <td>NM_130851</td> <td>BMP4</td> <td>Bone morphogenetic protein 4</td>	A08	Hs.68879	NM_130851	BMP4	Bone morphogenetic protein 4
A10     Hs.656687     NM_018398     CACNA2D3     Calcium channel, voltage-dependent, alpha 2/delta subunit 3       A11     Hs.528852     NM_05066     CCND1     Cyclin D1       A12     Hs.528852     NM_05066     CCND2     Cyclin D2       B01     Hs.52828     NM_00610     CD44     CD44 molecule (Indian boding orup)       B02     Hs.41086     NM_004752     CD0N     Codemons, p16, inhibito CM       B03     Hs.51259     NM_0016752     CD0N     Cdonhonce inding protein (CEBP, delta       B04     Hs.3034     NM_001915     CEBPD     CCAAT/enhoncer binding protein (CEBP, delta       B05     Hs.440829     NM_00181     CUBN     Cobinit (intrinsic factor-cobalamin receptor)       B08     Hs.481780     NM_00183     DA82     Disabled homolog 1, (knapus laevis)       B10     Hs.531371     NM_002083     DK1     Deltakapt homolog 1 (knapus laevis)       B11     Hs.148204     NM_001242     EKR     Epidemid growth factor receptor       C02     Hs.24821     NM_002083     DK1     Deltakapt homolog 1 (knapus laevis)       B11     Hs	A09	Hs.643802	NM_033637	BTRC	Beta-transducin repeat containing
A11     Hts2822     NM_003056     CCND1     Cyclin D1       A12     Hts376071     NM_000750     CCND2     Cyclin D2       B01     Hts376071     NM_000410     CD44     C044 molecule (Incine blood group)       B02     Hts461086     NM_000430     CDH1     Cadherin 1, hps 1, Ecadherin (epithelial)       B03     Hts312597     NM_000510     CDN42     Cyclin-dependent Kinese inibiator 2A (melanoma, p16, inhibits CDK4)       B04     Hts312597     NM_001692     CEBPD     CCAAT/enhonest hisse growth factor       B05     Hts44029     NM_001013     CUBN     Cubin (Infinition Ecotor-cobalamin receptor)       B06     Hts31267     NM_001343     DAB2     Discload homolog 1, Maropus leavel)       B07     Hts34090     NM_001343     DAB2     Discload homolog 1, Maropus leavel)       B10     Hts34737     NM_002836     DK1     Deleta-like 1 homolog 1 (Maropus leavel)       B11     Hts34903     NM_002288     EFRI     Epidemmal growth factor receptor       C02     Hts326033     NM_0028278     EFS2     V-Ets enythroblastasis vins E26 ancogene homolog 2 (avian)	A10	Hs.656687	NM_018398	CACNA2D3	Calcium channel, voltage-dependent, alpha 2/delta subunit 3
A12     Hs.370071     NM. 0001759     CCND2     Cyclin Log       B01     Hs.50228     NM.000100     CD44     CD44 molecule (Indian blood group)       B02     Hs.41086     NM.000177     CDKNAA     Cyclin-dependent kinase inhibitor 2A (Indian blood group)       B03     Hs.51236     NM.0005175     CEBPD     CCAAT enhomeser binding protein (C/EBP), delta       B05     Hs.440827     NM.001081     CUBN     Contentive fissue growth factor       B06     Hs.51346     NM.00101081     CUBN     Contentive fissue growth factor       B07     Hs.162026     NM.0010181     CUBN     Contentive fissue growth factor       B08     Hs.481900     NM.001242     DKK1     Deltakepf homolog 1 (Xenopus laevis)       B10     Hs.233717     NM.003836     DK1     Deltake 1 homolog (Drosophila)       B11     Hs.14200     NM.004429     EFNB1     Ephrin-B1       C03     Hs.242035     NM.002027     FGF4     Early growth receptor       C03     Hs.202035     NM.002007     FGF4     Fibroblast growth factor 7       C04     Hs.202037	A11	Hs.523852	NM_053056	CCND1	Cyclin D1
B01     Hs.502328     NM.004300     CD44     CD44     Codevalue (Include Include Inclu	A12	Hs.376071	NM 001759	CCND2	Cyclin D2
B02     Hs. 461086     NM. 0004300     CDH1     Cadherin 1, type 1, E-collerin (epithelia)       B03     Hs. 512599     NM. 0005195     CDKN2A     Cyclin-dependent kiase inhibitor 2A (melanoma, p16, inhibits CDK4)       B04     Hs. 38034     NM. 0015195     CDRN     Cdon homolog (mouse)       B05     Hs. 440827     NM. 005195     CEBPD     CCAN1/enhancer binding protein (C/CBP), delta       B06     Hs. 591346     NM. 001081     CUBN     Contentive fissue growth factor       B07     Hs. 64206     NM. 001242     DK1     Dickkopf homolog 1, Micponus facvis       B08     Hs. 441980     NM. 001242     DK1     Dickkopf homolog 1, Wanpus facvis       B10     Hs. 533717     NM. 002868     DP10     Dispetid+-peridase 10 (non-functional)       B11     Hs. 144700     NM. 002828     ECFR     Epideram growth factor receptor       C03     Hs. 248203     NM. 001292     ECKR     Epideral growth factor receptor       C03     Hs. 248211     NM. 002079     FGF4     Fibroblast growth factor 7       C04     Hs. 19755     NM. 002070     FGF7     Fibroblast growth factor 7 <td>B01</td> <td>Hs.502328</td> <td>NM_000610</td> <td>CD44</td> <td>CD44 molecule (Indian blood group)</td>	B01	Hs.502328	NM_000610	CD44	CD44 molecule (Indian blood group)
B03     Hs.512597     NM.000077     CDKN2A     Cyclin-dependent kinase inhibitor 2A (melanoma, p.16, inhibits CDK4)       B04     Hs.38034     NM.016952     CDDN     Cdon homolog (mouse)       B05     Hs.440829     NM.001901     CTGF     CANT/enhancer binding protein (C/EBP), delta       B06     Hs.591346     NM.00101     CTGF     Connective issue growth factor       B07     Hs.162206     NM.001343     DAB2     Disbled homolog 2, mitogen-responsive phosphoprotein (Drosophila)       B09     Hs.40499     NM.01242     DKK1     Delta-like 1 homolog (Drosophila)       B10     Hs.533717     NM.003628     DP10     Dipepidyl-pepidael citator receptor       B12     Hs.144700     NM.004242     EFN8     Ephrin-81       C01     Hs.48293     NM.005228     EGFR     Eorly growth response 1       C03     Hs.644211     NM.00529     ETS2     V-Ets enythroblastosi virus E26 oncogene homolog 2 (avian)       C04     Hs.199905     NM.019851     FGF20     Fibroblast growth factor 4       C05     Hs.203717     NM.002026     FN1     Fibroblast growth factor 4	B02	Hs.461086	NM 004360	CDH1	Cadherin 1, type 1, E-cadherin (epithelial)
B04     Hs.38034     NM_016952     CDON     Cdon homolog (mouse)       B05     Hs.440829     NM_005195     CEBPD     CCAAT/enhancer binding protein (C/EBP), delta       B06     Hs.591346     NM_001081     CUBN     Cubilin (intrinsis factor-cobalamin receptor)       B08     Hs.481980     NM_001343     DAB2     Disabled homolog 2, microen-responsive phosphoprotein (Drosophila)       B09     Hs.441980     NM_001242     DKK1     Delto-like 1 homolog 1 (Renopus loevis)       B10     Hs.533717     NM_003836     DLK1     Delto-like 1 homolog (Drosophila)       B11     Hs.441200     NM_00429     EFNB1     Eprimol (Prosophila)       B11     Hs.44200     NM_00429     EFNB1     Eprimol (Prosophila)       C01     Hs.44231     NM_005239     ETS2     V-Ets erythroblastis virus E26 oncogene homolog 2 (avian)       C02     Hs.542035     NM_002007     FGF20     Fibroblast growth factor 20       C03     Hs.64211     NM_002010     FGF7     Fibroblast growth factor 7       C04     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7	B03	Hs.512599	NM 000077	CDKN2A	Cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
B05     Hs.40829     NM_005195     CEBPD     CCAAT/enhancer binding protein (C/EBP), delta       B06     Hs.591346     NM_001901     CTGF     Connective issue growth factor       B07     Hs.162026     NM_001343     DB2     Disobled homolog 2, mitogen-response phosphoprotein (Drosophila)       B08     Hs.40499     NM_01342     DK1     Dickledp thomolog 1, (Renopus loevis)       B10     Hs.533717     NM_002886     DPI10     Dickledp thomolog 1 (Renopus loevis)       B12     Hs.144700     NM_005288     ECFR     Epidermal growth factor receptor       C01     Hs.484293     NM_005228     ECFR     Epidermal growth factor receptor       C02     Hs.326035     NM_005239     ETS2     V-Ets enythroblastosis virus E26 oncogene homolog 2 (avian)       C04     Hs.19705     NM_002007     FOF4     Fibroblast growth factor 20       C05     Hs.263768     NM_002009     FOF7     Fibroblast growth factor 7       C06     Hs.267268     NM_002009     FOF7     Fibroblast growth factor 7       C07     Hs.111     NM_005300     FS1     Follistatin <t< td=""><td>B04</td><td>Hs.38034</td><td>NM 016952</td><td>CDON</td><td>Cdon homolog (mouse)</td></t<>	B04	Hs.38034	NM 016952	CDON	Cdon homolog (mouse)
B06     Hs.591346     NM_001901     CTGF     Connective tissue growth factor       B07     Hs.162026     NM_001343     DA82     Disabled homolog 2, mitrogen-responsive phosphoprotein (Drosophila)       B08     Hs.481980     NM_001343     DA82     Disabled homolog 2, mitrogen-responsive phosphoprotein (Drosophila)       B09     Hs.40499     NM_01242     DKK1     Dickkopf homolog 1 (Kenopus laevis)       B10     Hs.533717     NM_002868     DPP10     Dipeptidyl-peptidase 10 (non-functional)       B11     Hs.591555     NM_002828     EKR     Epidemil growth factor receptor       C01     Hs.488293     NM_001964     ECR1     Echry growth response 1       C02     Hs.262035     NM_001928     ETS2     V-Ets erythroblastis virus E26 oncogene homolog 2 (avian)       C03     Hs.1755     NM_002009     FGF7     Fibroblast growth factor 20       C04     Hs.50202     FN1     Fibroblast growth factor 4       C05     Hs.1755     NM_002009     FGF7     Fibroblast growth factor 7       C06     Hs.203717     NM_0020202     FN1     Fibroblast growth factor 7	B05	Hs.440829	NM 005195	CEBPD	CCAAT/enhancer binding protein (C/EBP), delta
B07     Hs.16206     NM_00181     CUBN     Cubilin (intrinsic factor-cobalamin receptor)       B08     Hs.481980     NM_001242     DKK1     Disobled homolog 2, mitogen-responsive phosphopretein (Drosophila)       B09     Hs.30437     NM_002242     DKK1     Dickkopf homolog 1/knepus leevis)       B10     Hs.591555     NM_002836     DP10     Dipeptidyl-peptidads to (non-functional)       B11     Hs.144700     NM_004429     EFN81     Ephrin-81       C01     Hs.488273     NM_005238     EGR     Epidermal growth factor receptor       C02     Hs.326035     NM_001964     EGR1     Early growth response 1       C03     Hs.644231     NM_002007     FGF4     Fibroblast growth factor 7       C04     Hs.19905     NM_001200     FGF7     Fibroblast growth factor 7       C05     Hs.755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7       C07     Hs.11     NM_0020307     FGF7     Fibroblast growth factor 7       C10     Hs.24114     N	B06	Hs.591346	NM 001901	CTGF	Connective tissue growth factor
B08     Hs.481980     NM_001343     DAB2     Disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)       B09     Hs.40499     NM_012242     DKK1     Delekkopf homolog 1 (Xenopus leevis)       B10     Hs.533717     NM_003384     DLK1     Delen-like 1 homolog (Drosophila)       B11     Hs.533717     NM_003528     EGR     Epidermal growth response 1       C01     Hs.488293     NM_005228     EGR     Epidermal growth response 1       C02     Hs.3642311     NM_005239     ETS2     V-Ets enythroblastois virus E26 oncogene homolog 2 (avian)       C04     Hs.149905     NM_019851     FGF20     Fibroblast growth factor 7       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.109905     NM_002010     FGF9     Fibroblast growth factor 7       C07     Hs.111     NM_002026     FN1     FIbroblast growth factor 7       C08     Hs.207317     NM_0003507     FZD7     Frizzled fibriation       C10     Hs.97385     NM_0003507     FZD7     Frizzled fibriation factor 5       D01     Hs	B07	Hs.166206	NM 001081	CUBN	Cubilin (intrinsic factor-cobalamin receptor)
B09     Hs.40499     NM_012242     DK1     Dickkopf homolog 1 (kenopus lowis)       B10     Hs.532177     NM_003836     DLK1     Delensitie 1 homolog (Drosophila)       B11     Hs.144700     NM_00429     EFNB1     Ephrin-B1       C01     Hs.448293     NM_005228     EGFR     Epidemal growth factor receptor       C02     Hs.444231     NM_005299     ETS2     V-Ets erythroblastosi vins E26 oncogene homolog 2 (avian)       C04     Hs.199905     NM_002007     FGF4     Fibroblast growth factor 4       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.267268     NM_002007     FGF4     Fibroblast growth factor 7       C07     Hs.11     NM_002026     FN1     Fibroblast growth factor 7       C08     Hs.203717     NM_00350     FST     Follistatin       C10     Hs.9981     FGF20     Fibroblast growth factor 7       C07     Hs.1735     NM_0005438     FOSL1     FOS-like antigen 1       C10     Hs.203717     NM_000557     GDF5     Growth differintation fortor 5 <td>B08</td> <td>Hs.481980</td> <td>NM 001343</td> <td>DAB2</td> <td>Disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)</td>	B08	Hs.481980	NM 001343	DAB2	Disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
BI0     Hs.53371     NM_000836     DLK1     Defa-like 1 homolog [Drosophila]       B11     Hs.533717     NM_000836     DLK1     Defa-like 1 homolog [Drosophila]       B11     Hs.144700     NM_0020866     DPP10     Dipeptidy-peptidase 10 (non-functional)       B12     Hs.144700     NM_005228     EGFR     Epitim-B1       C01     Hs.488293     NM_005228     EGFR     Epidermal growth factor receptor       C03     Hs.644231     NM_00529     ETS2     V-Ets erythroblastosis virus E26 on cogene homolog 2 (avian)       C04     Hs.199905     NM_019851     FGF20     Fibroblast growth factor 20       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.203717     NM_002010     FGF7     Fibroblast growth factor 7       C07     Hs.111     NM_00256     FN1     Fibroblast growth factor 7       C08     Hs.203717     NM_00350     FST     Follistatin       C10     Hs.203717     NM_00350     FSD7     Fibroblast growth factor 5       D01     Hs.248114     NM_000557     GDF	B09	Hs 40499	NM 012242	DKK1	Dickkopf homolog 1 (Xenopus laevis)
B11     Hs.591555     NM_020868     DPP10     Dipeptidyl-peptidase 10 (non-functional)       B12     Hs.144700     NM_00429     EFNB1     Ephrin-B1       C01     Hs.48293     NM_005228     EGR     Epidermal growth factor receptor       C02     Hs.326035     NM_001964     EGR     Early growth response 1       C03     Hs.644231     NM_005239     ETS2     V-Ets erythroblastos rives E26 ancogene homolog 2 (avian)       C04     Hs.1999005     NM_019851     FGF20     Fibroblast growth factor 4       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7       C07     Hs.11     NM_00230     FST     Follistarin       C10     Hs.923717     NM_00350     FST     Follistarin       C11     Hs.173859     NM_003507     FZD7     Frizzled family receptor 7       C12     Hs.1738     NM_00014     GDNF     Gilo all derived neurotrophic factor       D02     Hs.248114     NM_000015     GJA1     Growth fa	B10	Hs.533717	NM 003836	DLK1	Delta-like 1 homolog (Drosophila)
B12     Hs.14700     NM_004429     EFNB1     Eppine.B1       C01     Hs.144700     NM_005228     EGFR     Epidemal growth factor receptor       C02     Hs.26035     NM_001964     EGRI     Edry growth response 1       C03     Hs.644231     NM_005239     ETS2     V-Ets erythroblast growth factor 20       C04     Hs.199905     NM_019851     FGF20     Fibroblast growth factor 4       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C05     Hs.1717     NM_002026     FN1     Fibroblast growth factor 7       C06     Hs.263717     NM_002026     FN1     Fibroblast growth factor 7       C07     Hs.111     NM_002057     FD7     Fibroblast growth factor 7       C08     Hs.203717     NM_0020507     FZD7     Friztel Growth differentiction factor 5       D01     Hs.248114     NM_000514     GDNF     Gliadeli derived neurotrophic factor       D02     Hs.120371     NM_002166     ID2     Instulin-like growth factor 1 (somatomedin C)       D03     Hs.120452     NM_0002164     ID	B11	Hs 591555	NM 020868	DPP10	Dipentidyl-pentidase 10 (non-functional)
Diff     Hs.48293     NM_0005228     EGFR     Epidermal growth factor receptor       C01     Hs.48293     NM_0005228     EGFR     Epidermal growth factor receptor       C02     Hs.242035     NM_001964     EGR1     Entry growth response 1       C03     Hs.644231     NM_002007     FGF4     Entroblast growth factor 20       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.567268     NM_002006     FGF7     Fibroblast growth factor 7       C07     Hs.111     NM_002026     FN1     Fibroblast growth factor 7       C08     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7       C10     Hs.78359     NM_003507     FZD7     Fibroblast growth factor 5       C11     Hs.173859     NM_000514     GDNF     Gial cell derived neurotrophic factor 5       D01     Hs.248114     NM_000516     GJA1     Growth differentiation factor 5       D02     Hs.74471     NM_000618     IGF1     Insulin-like growth factor 1 (somatomedin A)       D04     Hs.160562     NM_000618	B12	Hs 144700	NM 004429	EENB1	Enbrin-B1
Col:     Ins_color_1     Early     Early growth response 1       Col:     Hs.32035     NM_001964     EGR1     Early growth response 1       Col:     Hs.42035     NM_019851     FGE20     Fibroblast growth factor 20       Col:     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 4       Col:     Hs.1755     NM_002007     FGF7     Fibroblast growth factor 7       Col:     Hs.171     NM_0020206     FN1     Fibroblast growth factor 7       Col:     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7       Col:     Hs.203717     NM_003507     F2D7     Fibroblast growth factor 5       Col:     Hs.1373     NM_003507     F2D7     Fibroblast growth factor 5       Col:     Hs.1573     NM_000557     GDF5     Growth differentiation factor 5       Doi:     Hs.248114     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       Doi:     Hs.248114     NM_000185     GJA1     Insulin-like growth factor 1 (somatomedin C)       Doi:     Hs.232414     NM_000216     ID2     Inh	C01	Hs 488293	NM 005228	FGER	Epidermal growth factor recentor
Cold     Hs_041231     NM_005239     ETS2     V-Ets erythroblastosis virus E26 oncogene homolog 2 (avian)       C04     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 20       C05     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.1755     NM_002007     FGF7     Fibroblast growth factor 7       C07     Hs.111     NM_002010     FGF7     Fibroblast growth factor 7       C08     Hs.203717     NM_002026     FN1     FIbroblast growth factor 7       C08     Hs.203717     NM_002026     FN1     FIbroblast growth factor 9 (glia-activating factor)       C09     Hs.283565     NM_006350     FST     Follistatin       C10     Hs.97914     NM_006350     FST     Follistatin       C11     Hs.1573     NM_000514     GDNF     Glial cell derived neurotrophic factor       D01     Hs.248114     NM_000514     GDN     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_002166     ID2     Inhibitor of DNA binding 2, dominant negative helik-loop-helix protein       D04     Hs.5	C02	Hs 326035	NM 001964	FGR1	Equivariant growth response 1
C00     Hst_09005     NM_0012871     FGF20     Fibroblast growth factor 20       C04     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.1755     NM_002007     FGF4     Fibroblast growth factor 7       C06     Hs.567268     NM_002010     FGF7     Fibroblast growth factor 7       C07     Hs.111     NM_002016     FGF7     Fibroblast growth factor 7       C08     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7       C09     Hs.283565     NM_006350     FST     Follistorin       C10     Hs.914     NM_000537     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000514     GDNF     Glial cell derived neurotrophic factor       D02     Hs.74471     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000164     ID2     Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein       D04     Hs.24314     NM_000612     IGF2     Insulin-like growth factor 1 (somatomedin C)       D05     Hs.525414	C03	He 644231	NM 005239	EURI FTS2	V-Ets enthroblastosis virus E26 oncogene bomolog 2 (gvign)
C04     Thst.1777.03     TMM_017601     TOTO     ThatGuidast growth factor 20       C05     Hs.1755     NM_002009     FGF4     Fibroblast growth factor 7       C07     Hs.111     NM_002009     FGF4     Fibroblast growth factor 7       C07     Hs.111     NM_002010     FGF9     Fibroblast growth factor 7       C08     Hs.203717     NM_002026     FN1     Fibroblast growth factor 9       C10     Hs.29171     NM_002016     FGF7     Fibroblast growth factor 7       C10     Hs.29171     NM_002026     FST     Folliattin       C10     Hs.2914     NM_00350     FST     Folliattin       C11     Hs.173859     NM_000557     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000554     GDNF     Glial cell derived neurotrophic factor       D02     Hs.74471     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000121     IGF2     Insulin-like growth factor 2 (somatomedin C)       D05     Hs.523414     NM_0005544     IRS1     Ins	C04	Hc 100005	NM_019851	EGE20	Fibroblast arouth factor 20
C00     INT_002007     FGF7     Fibroblast growth factor 7       C07     Hs.111     NM_002009     FGF7     Fibroblast growth factor 7       C08     Hs.203717     NM_002026     FN1     Fibroblast growth factor 7       C09     Hs.203717     NM_005438     FOSL1     Fibroblast growth factor 7       C10     Hs.203717     NM_005436     FST     Follistatin       C10     Hs.9914     NM_00530     FST     Follistatin       C11     Hs.173859     NM_000557     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000514     GDPF     Glial cell derived neurotrophic factor       D02     Hs.74471     NM_000165     GJA1     Gop junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000612     IGF2     Insulin-like growth factor 1 [somatomedin C]       D04     Hs.654248     NM_000612     IGF2     Insulin-like growth factor 2 [somatomedin A]       D05     Hs.523414     NM_000544     IRS1     Insulin-like growth factor 1 [somatomedin A]       D06     Hs.54458     NM_000214     JAG1	C05	Hs 1755	NM 002007	FGF4	Fibroblast growth factor 4
Cool     HM_002010     FGF 9     Fibroblast growth factor 9 (glic-activating factor)       C07     Hs.111     NM_002010     FGF 9     Fibroblast growth factor 9 (glic-activating factor)       C08     Hs.283565     NM_005438     FOSL1     FOS-like antigen 1       C10     Hs.9914     NM_006350     FST     Follistatin       C11     Hs.173859     NM_003507     FZD7     Frizzled family receptor 7       C12     Hs.1737     NM_000557     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D02     Hs.74471     NM_000166     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_002106     ID2     Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein       D04     Hs.160562     NM_000618     IGF1     Insulin-like growth factor 2 (somatomedin C)       D05     Hs.523414     NM_000600     IL6     Interlevin 6 (interferon, beta 2)       D06     Hs.62488     NM_000612     IGF2     Insulin-like growth factor 1 (somatomedin A) <td< td=""><td>C06</td><td>He 567268</td><td>NM 002009</td><td>FGF7</td><td>Fibroblast growth factor 7</td></td<>	C06	He 567268	NM 002009	FGF7	Fibroblast growth factor 7
C07     INIT     INIT_002102     FN1     Initiation of the second s	C07	He 111	NM 002010	FGF9	Fibroblast growth factor 9 (alia-activating factor)
C00     Hill Control     Hill Control     Hill Control       C09     Hs.283565     NM_005438     FOSL1     FOSLike antigen 1       C10     Hs.9914     NM_005300     FST     Follistatin       C11     Hs.173859     NM_003507     FZD7     Frizzled family receptor 7       C12     Hs.1737     NM_000557     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000516     GJA1     Gap junction protein, alpha 1, 43kDa       D02     Hs.74471     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D04     Hs.160562     NM_000618     IGF1     Insulin-like growth factor 1 (somatomedin C)       D05     Hs.523414     NM_000600     IL6     Interleukin 6 (interferon, beta 2)       D07     Hs.471508     NM_000214     JAG1     Jagged 1       D08     Hs.728907     NM_000232     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.162757     NM_0002332     LEP1     Low density li	C08	Hs 203717	NM 002026	FN1	Fibronectin 1
Cito     Historia     House Hingen 1       Cito     Hs.2914     NM_006350     FST     Folditatian       Cito     Hs.173859     NM_0003507     FZD7     Frizzled family receptor 7       Cito     Hs.173859     NM_000577     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000514     GDNF     Glial cell derived neurotrophic factor       D02     Hs.74471     NM_000165     GJA1     Grap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_002166     ID2     Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein       D04     Hs.160562     NM_000618     IGF1     Insulin-like growth factor 1 (somatomedin C)       D05     Hs.523414     NM_000600     IL6     Interleukin 6 (interferon, beta 2)       D06     Hs.6471508     NM_000514     IRS1     Insulin receptor substrate 1       D08     Hs.728907     NM_00232     LFF1     Lymphoid enhancer-binding factor 1       D10     Hs.555947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.132966     NM_000245	C09	Hs 283565	NM 005438	FOSU1	FOS-like antigen 1
C10     Hst.714     HM_000307     FZD7     Frizzled family receptor 7       C11     Hs.173859     NM_003507     FZD7     Frizzled family receptor 7       C12     Hs.1573     NM_000557     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D02     Hs.74471     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000165     GJA1     Insulin-like growth factor 2 (somatomedin C)       D04     Hs.160562     NM_0000112     IGF1     Insulin-like growth factor 2 (somatomedin A)       D06     Hs.654458     NM_000214     IGF2     Insulin-like growth factor 2 (somatomedin A)       D07     Hs.471508     NM_00214     JAG1     Jagged 1       D08     Hs.728907     NM_00214     JAG1     Jagged 1       D09     Hs.505474     NM_002467     LEF1     Lymphoid enhancer-binding factor 1       D10     Hs.555947     NM_00245     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.213617 </td <td>C10</td> <td>He 9914</td> <td>NM 006350</td> <td>FST</td> <td>Follictatio</td>	C10	He 9914	NM 006350	FST	Follictatio
C11     Int_Bit 1573     INM_000557     GDF5     Growth differentiation factor 5       D01     Hs.248114     NM_000557     GDF5     Growth differentiation factor 5       D02     Hs.74471     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_000164     ID2     Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein       D04     Hs.160562     NM_000618     IGF1     Insulin-like growth factor 1 (somatomedin C)       D05     Hs.523414     NM_000610     IL6     Interleukin 6 (interferon, beta 2)       D06     Hs.654458     NM_0002144     IRS1     Insulin receptor substrate 1       D08     Hs.728907     NM_000214     JAG1     Jagged 1       D09     Hs.508234     NM_01730     KLF5     Kruppel-like factor 5 (intestinal)       D10     Hs.513617     NM_0023232     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_002453     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa g	C10	He 173859	NM 003507	FZD7	Frizzled family receptor 7
C12     TR. 13/3     NM_000514     GDNF     Glowin dimensional data of the protein and the prote protein and the prote protein and the prote protei	C12	He 1572	NM 000557	CDE5	Growth differentiation factor 5
D01     Hs.248114     NM_000145     GDN     Gint cent derived netrotor protein, alpha 1, 43kDa       D02     Hs.74471     NM_000165     GJA1     Gap junction protein, alpha 1, 43kDa       D03     Hs.180919     NM_002166     ID2     Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein       D04     Hs.160562     NM_000618     IGF1     Insulin-like growth factor 1 (somatomedin C)       D05     Hs.523414     NM_000612     IGF2     Insulin-like growth factor 2 (somatomedin A)       D06     Hs.654458     NM_000600     IL6     Interleukin 6 (interferon, beta 2)       D07     Hs.471508     NM_0005544     IRS1     Insulin receptor substrate 1       D08     Hs.728907     NM_000214     JAG1     Jagged 1       D09     Hs.558947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.162757     NM_002332     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_002453     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.213617     NM_004530     MMP2     Matr	D01	La 0 4 9 1 1 4	NM_000514	CDNE	Cline cell derived neurotrephic factor
D02Hs.7471NM_000103ODA1Output the analysisD03Hs.180919NM_002166ID2Inhibitor of DNA binding 2, dominant negative helix-loop-helix proteinD04Hs.180562NM_000618IGF1Insulin-like growth factor 1 (somatomedin C)D05Hs.523414NM_000612IGF2Insulin-like growth factor 2 (somatomedin A)D06Hs.654458NM_000504IL6Interleukin 6 (interferon, beta 2)D07Hs.471508NM_005544IRS1Insulin receptor substrate 1D08Hs.728907NM_000214JAG1Jagged 1D09Hs.555947NM_016269LEF1Lymphoid enhancer-binding factor 1D10Hs.555947NM_0126269LEF1Lymphoid enhancer-binding factor 1D11Hs.132966NM_000245METMet proto-oncogene (hepatocyte growth factor receptor)E01Hs.513617NM_004530MMP2Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)E03Hs.297413NM_00494MMP9Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)E04Hs.202453NM_002467MYCV-myc myelocytomatosis viral oncogene homolog (avian)E05Hs.61360NM_024865NANOGNanog homeoboxE06Hs.21422NM_005010NRCAMNeuronal cell adhesion moleculeE07Hs.13704NM_022472NP1Neuronal cell adhesion molecule	D01	Hc 74471	NM_000165	GIAI	Gan junction protein alpha 1, 42kDa
D03     Hs.160717     Hxt_002100     Hb2     Hindbill of DRA binking 2, doining 4, doining 2, doining 4, doining	D02	Hc 180010	NM 002166		Inhibitor of DNA hinding 2, dominant negative balix loop balix protein
D04     Ins.10007     INM_000612     IGF1     Insulin-like growth factor 2 (somatomedin A)       D05     Hs.523414     NM_000612     IGF2     Insulin-like growth factor 2 (somatomedin A)       D06     Hs.654458     NM_000610     IL6     Interleukin 6 (interferon, beta 2)       D07     Hs.471508     NM_000214     JAG1     Jagged 1       D08     Hs.728907     NM_000214     JAG1     Jagged 1       D09     Hs.5058234     NM_01730     KLF5     Kruppel-like factor 5 (intestinal)       D10     Hs.555947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.162757     NM_002332     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_002453     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)       E03     Hs.297413     NM_00494     MMP9     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453     NM_002467	D03	Hc 160562	NM 000618	IGEI	Initiation of DIVA binding 2, dominant negative neix-toop-neix protein
D03     Hs.2234 H     HM_000012     Hof 2     Installining growth factor 2 (solutionited H A)       D06     Hs.654458     NM_000600     IL6     Interleukin 6 (interferon, beta 2)       D07     Hs.471508     NM_000514     IRS1     Interleukin 6 (interferon, beta 2)       D08     Hs.728907     NM_000214     JAG1     Jagged 1       D09     Hs.508234     NM_001730     KLF5     Kruppel-like factor 5 (intestinal)       D10     Hs.555947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.162757     NM_00232     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_004530     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)       E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 7 (matrilysin, uterine)       E03     Hs.297413     NM_004994     MMP9     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453	D04	Hc 522414	NM_000612	IGE2	Insulin-like growth factor 2 (comptomedin C)
D00     Hs.0344.38     NM_000504     ILD     Interfediting (interfediting bering 2)       D07     Hs.471508     NM_000544     IRS1     Insulin receptor substrate 1       D08     Hs.728907     NM_000214     JAG1     Jagged 1       D09     Hs.508234     NM_01730     KLF5     Kruppel-like factor 5 (intestinal)       D10     Hs.555947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.162757     NM_000245     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)       E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E03     Hs.297413     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.661360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule	D05	Ha 454459	NM_000600	1012	Interleulin 4 (interferen, hete 2)
D07     Hs.471500     HM_000344     IRS1     Insult receptor substrate 1       D08     Hs.728907     NM_000214     JAG1     Jagged 1       D09     Hs.508234     NM_001730     KLF5     Kruppel-like factor 5 (intestinal)       D10     Hs.555947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.162757     NM_002332     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_000245     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)       E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E03     Hs.297413     NM_004994     MMP9     Collagenase)       E04     Hs.202453     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.661360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM <td< td=""><td>D00</td><td>He 471509</td><td>NM 005544</td><td>ILO IPS 1</td><td>Interference of interference of the second o</td></td<>	D00	He 471509	NM 005544	ILO IPS 1	Interference of interference of the second o
Dod     Hs./ 2070/     HM000214     JAG1     Jagged 1       D09     Hs.508234     NM_001730     KLF5     Kruppel-like factor 5 (intestinal)       D10     Hs.555947     NM_016269     LEF1     Lymphol-like factor 5 (intestinal)       D11     Hs.162757     NM_002332     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_000245     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)       E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 7 (matrilysin, uterine)       E03     Hs.297413     NM_004994     MMP9     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.61360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E07     Hs.13704     NM_002372		He 720007	NM 000214		
EV7     INS_00234     INM_001730     INT_3     INTUpper-like factor 3 (intestinal)       D10     Hs.555947     NM_016269     LEF1     Lymphoid enhancer-binding factor 1       D11     Hs.152757     NM_002332     LRP1     Low density lipoprotein receptor-related protein 1       D12     Hs.132966     NM_002453     MET     Met proto-oncogene (hepatocyte growth factor receptor)       E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)       E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 7 (matrilysin, uterine)       E03     Hs.297413     NM_004994     MMP9     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.661360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E06     Hs.214720     NM_00572     NRCAM     Neuronal cell adhesion molecule	D00	Ha 509024	NM 001720	JAGI	Jugged I Kruppel like factor 5 (intertional)
D10 Hs.35344 NM_010269 LEP1 Lymphoid enhancer-binding factor 1   D11 Hs.162757 NM_002332 LRP1 Low density lipoprotein receptor-related protein 1   D12 Hs.132966 NM_000245 MET Met proto-oncogene (hepatocyte growth factor receptor)   E01 Hs.513617 NM_004530 MMP2 Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)   E02 Hs.2256 NM_002423 MMP7 Matrix metallopeptidase 7 (matrilysin, uterine)   E03 Hs.297413 NM_004994 MMP9 Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)   E04 Hs.202453 NM_002467 MYC V-myc myelocytomatosis viral oncogene homolog (avian)   E05 Hs.61360 NM_024865 NANOG Nanog homeobox   E06 Hs.21422 NM_005010 NRCAM Neuronal cell adhesion molecule   E07 Hs.13704 NM_00272 NP21 Neuronal cell adhesion molecule	D09	HS.306234	NM_001730	KLFJ	Kropper-like raciol 5 (Intestinal)
D11 Hs.132737 NM_002332 LRP1 Low density inportein receptor-related protein 1   D12 Hs.132966 NM_000245 MET Met proto-oncogene (hepatocyte growth factor receptor)   E01 Hs.513617 NM_004530 MMP2 Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)   E02 Hs.2256 NM_002423 MMP7 Matrix metallopeptidase 7 (matrilysin, uterine)   E03 Hs.297413 NM_004994 MMP9 Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)   E04 Hs.202453 NM_002467 MYC V-myc myelocytomatosis viral oncogene homolog (avian)   E05 Hs.61360 NM_024865 NANOG Nanog homeobox   E06 Hs.21422 NM_005010 NRCAM Neuronal cell adhesion molecule   E07 Hs.13704 NM_002872 NP21 Neuronal cell adhesion molecule	D10	Hs.333747	NM_010209	LEFT	Lymphold enhancer-binding factor i
D12 Hs.132900 NM_000243 ME1 Met proto-oncogene (nepratocyte growth factor receptor)   E01 Hs.513617 NM_004530 MMP2 Matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)   E02 Hs.2256 NM_002423 MMP7 Matrix metallopeptidase 7 (matrilysin, uterine)   E03 Hs.297413 NM_004994 MMP9 Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)   E04 Hs.202453 NM_002467 MYC V-myc myelocytomatosis viral oncogene homolog (avian)   E05 Hs.61360 NM_024865 NANOG Nanog homeobox   E06 Hs.21422 NM_005010 NRCAM Neuronal cell adhesion molecule   E07 Hs.13704 NM_002872 NP21 Neuronal cell adhesion molecule	DII	Hs.102/5/	NM_002332		Low density inpoprotein receptor-related protein i
E01     Hs.513617     NM_004530     MMP2     Matrix metallopeptidase 2 (gelatinase , 72kDa gelatinase, 72kDa type IV collagenase)       E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 7 (matrilysin, uterine)       E03     Hs.297413     NM_004994     MMP9     Matrix metallopeptidase 9 (gelatinase , 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.61360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E07     Hs.13704     NM_00272     NP1     Neuronal cell adhesion in a strained in a str	DIZ	□S.132900	NM_000245	IMET	Mer proto-oncogene (nepatocyte growth factor receptor)
E02     Hs.2256     NM_002423     MMP7     Matrix metallopeptidase 7 (matrilysin, uterine)       E03     Hs.297413     NM_004994     MMP9     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.661360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E07     Hs.13704     NM_002872     NP21     Neuronal cell adhesion molecule	E01	Hs.513617	NM_004530	MMP2	collagenase)
E03     Hs.297413     NM_004994     MMP9     Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)       E04     Hs.202453     NM_002467     MYC     V-myc myelocytomatosis viral oncogene homolog (avian)       E05     Hs.661360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E07     Hs.13704     NM_002872     NP21     Neuronal cell adhesion molecule	E02	Hs.2256	NM_002423	MMP7	Matrix metallopeptidase 7 (matrilysin, uterine)
E04 Hs.202453 NM_002467 MYC V-myc myelocytomatosis viral oncogene homolog (avian)   E05 Hs.661360 NM_024865 NANOG Nanog homeobox   E06 Hs.21422 NM_005010 NRCAM Neuronal cell adhesion molecule   E07 Hs.13704 NM_002872 NPP1	E03	Hs.297413	NM_004994	MMP9	Matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV
E05     Hs.661360     NM_024865     NANOG     Nanog homeobox       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E07     Hs.11704     NM_0024865     NANOG     Nanog homeobox	F04	Hs 202453	NM 002467	MYC	V-myc myelocytomatosis viral oncogene homolog (gyian)
E00     Hs.01000     Hs.022000     HonCO     HonCO     HonCO       E06     Hs.21422     NM_005010     NRCAM     Neuronal cell adhesion molecule       E07     Hs.13704     NM_002872     NIP01     Neuronal cell adhesion molecule	E05	Hs 661360	NM 024865	NANOG	Nanoa homeohov
E00     113.21722     TWC_00010     TMC/MI     reduction certaines/01110/e0/e       E07     He 31704     NM 002872     NIPD     Neuropilip 1	E05	He 21/22	NM 005010	NIRCAM	Neuropal cell adhesion molecule
	F07	Hs 131704	NM 003873	NRP1	Neuronilin 1

Position	UniGene	GenBank	Symbol	Description
E08	Hs.494312	NM_006180	NTRK2	Neurotrophic tyrosine kinase, receptor, type 2
E09	Hs.74615	NM_006206	PDGFRA	Platelet-derived growth factor receptor, alpha polypeptide
E10	Hs.643588	NM_000325	PITX2	Paired-like homeodomain 2
E11	Hs.466871	NM_002659	PLAUR	Plasminogen activator, urokinase receptor
E12	Hs.249184	NM_002701	POU5F1	POU class 5 homeobox 1
F01	Hs.405156	NM 003713	PPAP2B	Phosphatidic acid phosphatase type 2B
F02	Hs.696032	NM_006238	PPARD	Peroxisome proliferator-activated receptor delta
F03	Hs.494538	NM_000264	PTCH1	Patched 1
F04	Hs.196384	NM_000963	PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
F05	Hs.535845	NM_004348	RUNX2	Runt-related transcription factor 2
F06	Hs.481022	NM_003013	SFRP2	Secreted frizzled-related protein 2
F07	Hs.716658	NM 005982	SIX1	SIX homeobox 1
F08	Hs.437846	NM_005631	SMO	Smoothened, frizzled family receptor
F09	Hs.518438	NM_003106	SOX2	SRY (sex determining region Y)-box 2
F10	Hs.647409	NM_000346	SOX9	SRY (sex determining region Y)-box 9
F11	Hs.389457	NM_003181	Т	T, brachyury homolog (mouse)
F12	Hs.644653	NM_003199	TCF4	Transcription factor 4
G01	Hs.573153	NM_003202	TCF7	Transcription factor 7 (T-cell specific, HMG-box)
G02	Hs.516297	NM_031283	TCF7L1	Transcription factor 7-like 1 (T-cell specific, HMG-box)
G03	Hs.593995	NM_030756	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)
G04	Hs.592317	NM_003239	TGFB3	Transforming growth factor, beta 3
G05	Hs.197320	NM_005077	TLE1	Transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)
G06	Hs.66744	NM_000474	TWIST1	Twist homolog 1 (Drosophila)
G07	Hs.73793	NM_003376	VEGFA	Vascular endothelial growth factor A
G08	Hs.492974	NM_003882	WISP1	WNT1 inducible signaling pathway protein 1
G09	Hs.592145	NM_003881	WISP2	WNT1 inducible signaling pathway protein 2
G10	Hs.336930	NM_033131	WNT3A	Wingless-type MMTV integration site family, member 3A
G11	Hs.696364	NM_003392	WNT5A	Wingless-type MMTV integration site family, member 5A
G12	Hs.149504	NM_003395	WNT9A	Wingless-type MMTV integration site family, member 9A
H01	Hs.520640	NM_001101	ACTB	Actin, beta
H02	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
H03	Hs.592355	NM_002046	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
H04	Hs.412707	NM_000194	HPRT1	Hypoxanthine phosphoribosyltransferase 1
H05	Hs.546285	NM_001002	RPLPO	Ribosomal protein, large, PO
H06	N/A	SA_00105	HGDC	Human Genomic DNA Contamination
H07	N/A	SA_00104	RTC	Reverse Transcription Control
H08	N/A	SA_00104	RTC	Reverse Transcription Control
H09	N/A	SA_00104	RTC	Reverse Transcription Control
H10	N/A	SA_00103	PPC	Positive PCR Control
H11	N/A	SA_00103	PPC	Positive PCR Control
H12	N/A	SA_00103	PPC	Positive PCR Control

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