

Supplementary Table 1. Gene symbols and gene NM of all analysed housekeeping, chondrogenic/IVD/growth factors, surface, stemness and senescence-related.

Gene	Gene NM
Housekeeping	
<i>ACTB</i>	NM_001101.3
<i>B2M</i>	NM_004048.2
<i>GAPDH</i>	NM_002046.5
<i>GUSB</i>	NM_000181.3
<i>HPRT1</i>	NM_000194.2
<i>HSP90AB1</i>	NM_007355.3
<i>LDHA</i>	NM_005566.3
<i>RNA18S</i>	NR_146325.1
<i>RPL13A</i>	NM_012423.3
<i>RPLP0</i>	NM_001002.3
<i>SDHA</i>	NM_004168.3
<i>TBP</i>	NM_003194.4
<i>UBC</i>	NM_021009.6
<i>YWHAZ</i>	NM_145690.2
Chondrogenic/IVD/growth factors	
<i>A2M</i>	NM_000014.4
<i>ABCG1</i>	NM_016818.2
<i>ACAN</i>	NM_013227.3
<i>ACTA2</i>	NM_001613
<i>ACTC1</i>	NM_005159
<i>ACVR1</i>	NM_001105
<i>ACVR2A</i>	NM_001616
<i>ACVRL1</i>	NM_000020
<i>AGT</i>	NM_000029
<i>AIPL1</i>	NM_014336
<i>AMH</i>	NM_000479
<i>AMHR2</i>	NM_020547
<i>AREG</i>	NM_001657.3
<i>ANAPC10</i>	NM_001256706.1
<i>ANKRD1</i>	NM_014391.2
<i>ANLN</i>	NM_018685.4
<i>ANXA2</i>	NM_001002858.2
<i>AR</i>	NM_000044
<i>ARMCX6</i>	NM_019007.3
<i>ASPN</i>	NM_017680.4
<i>ATF3</i>	NM_001674
<i>ATF4</i>	NM_001675
<i>ATRNL1</i>	NM_207303.4
<i>BACE2</i>	NM_012105.4
<i>BACH1</i>	NM_001186
<i>BAMBI</i>	NM_012342
<i>BCAM</i>	NM_005581.4
<i>BCL2L1</i>	NM_138578

<i>BCL2L13</i>	NM_015367.3
<i>BDNF</i>	NM_001709
<i>BGLAP</i>	NM_199173
<i>BGN</i>	NM_001711.5
<i>BHLHE40</i>	NM_003670
<i>BID</i>	NM_197966.2
<i>BMP1</i>	NM_006129
<i>BMP4</i>	NM_130851
<i>BMP5</i>	NM_021073
<i>BMP6</i>	NM_001718
<i>BMPER</i>	NM_133468
<i>BMPR1A</i>	NM_004329
<i>BMPR1B</i>	NM_001203
<i>BMPR2</i>	NM_001204
<i>BORA</i>	NM_001286746.1
<i>BRD2</i>	NM_005104
<i>C2CD4A</i>	NM_207322.2
<i>CA12</i>	NM_001218.4
<i>CANX</i>	NM_001746.3
<i>CBFB</i>	NM_022845.2
<i>CD168</i>	NM_001142556.1
<i>CD24</i>	NM_013230.3
<i>CD54</i>	NM_000201.2
<i>CD90</i>	NM_006288.4
<i>CDH19</i>	NM_021153.3
<i>CDH2</i>	NM_001792.4
<i>CDKN1B</i>	NM_004064
<i>CDKN2B</i>	NM_004936
<i>CDS1</i>	NM_001263.3
<i>CEBPB</i>	NM_005194
<i>CHAD</i>	NM_001267.2
<i>CHPT1</i>	NM_020244.2
<i>CHRD</i>	NM_003741
<i>CLDN11</i>	NM_005602.5
<i>CLEC2B</i>	NM_005127.2
<i>CLEC3A</i>	NM_005752.4
<i>CLGN</i>	NM_004362.2
<i>COL10A1</i>	NM_000493.3
<i>COL11A1</i>	NM_080629.2
<i>COL11A2</i>	NM_080680.2
<i>COL12A1</i>	NM_004370.5
<i>COL14A1</i>	NM_021110.3
<i>COL15A1</i>	NM_001855.4
<i>COL1A2</i>	NM_000089
<i>COL2A1</i>	NM_001844.4
<i>COL4A1</i>	NM_001845.5
<i>COL5A1</i>	NM_000093.4
<i>COL5A3</i>	NM_015719.3
<i>COL6A1</i>	NM_001848.2
<i>COL8A1</i>	NM_001850.4

<i>COL9A1</i>	NM_001851.4
<i>COL9A2</i>	NM_001852.3
<i>COL9A3</i>	NM_001853.3
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<i>CREBBP</i>	NM_004380
<i>CRHR1</i>	NM_004382.4
<i>CRTAP</i>	NM_006371.4
<i>CSF1</i>	NM_000757.5
<i>CSF1R</i>	NM_001288705.2
<i>CSPG5</i>	NM_006574.3
<i>DCN</i>	NM_001920.4
<i>DDR1</i>	NM_001954.4
<i>DNER</i>	NM_139072.3
<i>DSC2</i>	NM_024422.4
<i>DSG2</i>	NM_001943.4
<i>DUOX1</i>	NM_017434.4
<i>E2F4</i>	NM_001950
<i>EGF</i>	XM_017007845.1
<i>EGR2</i>	NM_000399
<i>ELN</i>	NM_000501.3
<i>EMP1</i>	NM_001423
<i>EP300</i>	NM_001429
<i>EPHB2</i>	NM_004442
<i>EPYC</i>	NM_004950.4
<i>ESYT2</i>	NM_020728.2
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<i>FANK1</i>	NM_145235.3
<i>FGF18</i>	NM_003862.2
<i>FGF4</i>	NM_002007.3
<i>FGF6</i>	NM_020996.2
<i>FGF7</i>	NM_002009.3
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<i>FLNA</i>	NM_001456.3
<i>FLRT2</i>	NM_001346143.1
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<i>FURIN</i>	NM_002569
<i>FZD3</i>	NM_017412.3
<i>FZD5</i>	NM_003468.3
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<i>GADD45B</i>	NM_015675
<i>GCNT1</i>	NM_001097634.1
<i>GDF2</i>	NM_016204
<i>GDF3</i>	NM_020634
<i>GDF5</i>	NM_000557
<i>GDF6</i>	NM_001001557
<i>GDF7</i>	NM_182828

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<i>GPR133</i>	NM_198827.4
<i>GPT2</i>	NM_133443.3
<i>GSC</i>	NM_173849
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<i>HERPUD1</i>	NM_014685
<i>HES1</i>	NM_005524
<i>HEY1</i>	NM_012258
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<i>HSF2</i>	NM_004506.3
<i>HSPG2</i>	NM_005529.6
<i>HTR7</i>	NM_000872.4
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<i>ID3</i>	NM_002167
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<i>IGF2</i>	NM_000612.5
<i>IGFBP1</i>	NM_000596.3
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<i>KRT19</i>	NM_002276.4
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<i>LMNB1</i>	NM_005573.3
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<i>LRRN4CL</i>	NM_203422.3
<i>LTBP1</i>	NM_000627
<i>MAGT1</i>	NM_032121.5
<i>MAP3K7</i>	NM_003188
<i>MAPK8</i>	NM_002750
<i>MASP2</i>	NM_006610.3
<i>MATN3</i>	NM_002381.4
<i>MATN4</i>	NM_003833.4
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<i>NFKBIA</i>	NM_020529
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<i>NOTCH1</i>	NM_017617
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<i>RARA</i>	NM_000964
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<i>RELL1</i>	NM_001085400.1
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<i>RNF130</i>	NM_018434.5
<i>RUNX1</i>	NM_001754.4
<i>RUNX3</i>	NM_001031680.2
<i>RYBP</i>	NM_012234
<i>RYK</i>	NM_001005861.2
<i>S100A8</i>	NM_002964
<i>SCIN</i>	NM_001112706.2
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<i>SLC27A2</i>	NM_003645.3
<i>SLC38A7</i>	NM_018231.2
<i>SLC44A1</i>	NM_080546.4
<i>SLC7A1</i>	NM_003045.4

<i>SLC7A7</i>	NM_001126105.2
<i>SLC9A1</i>	NM_003047.4
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<i>SMAD6</i>	NM_005585
<i>SMAD7</i>	NM_005904
<i>SMURF1</i>	NM_020429
<i>SNAI1</i>	NM_005985
<i>SNAI2</i>	NM_003068.4
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<i>SOX9</i>	NM_000346.3
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<i>TGFB2</i>	NM_001135599.3
<i>TGFB3</i>	NM_003239.4
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<i>TGFBR2</i>	NM_003242
<i>TGFBR3</i>	NM_003243
<i>TGIF1</i>	NM_003244
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<i>TNFRSF12A</i>	NM_016639.2
<i>TNFSF10</i>	NM_003810
<i>TNMD</i>	NM_022144.2
<i>TOMM20</i>	NM_014765.2
<i>TOP2A</i>	NM_001067.3
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<i>UBE2B</i>	NM_003337.3
<i>UBE2V1</i>	NM_021988.5

<i>VCAN</i>	NM_004385.4
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<i>WNT11</i>	NM_004626.2
<i>YME1L1</i>	NM_139312.2
<i>ZDHHC9</i>	NM_016032.3
Surface	
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<i>C5AR1</i>	NM_001736
<i>CD160</i>	NM_007053
<i>CD163</i>	NM_004244
<i>CD19</i>	NM_001770
<i>CD1A</i>	NM_001763
<i>CD1C</i>	NM_001765
<i>CD1D</i>	NM_001766
<i>CD2</i>	NM_001767
<i>CD209</i>	NM_021155
<i>CD22</i>	NM_001771
<i>CD244</i>	NM_016382
<i>CD247</i>	NM_000734
<i>CD28</i>	NM_006139
<i>CD37</i>	NM_001774
<i>CD38</i>	NM_001775
<i>CD3D</i>	NM_000732
<i>CD3G</i>	NM_000073
<i>CD4</i>	NM_000616
<i>CD40</i>	NM_001250
<i>CD40LG</i>	NM_000074
<i>CD5</i>	NM_014207
<i>CD6</i>	NM_006725
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<i>CD69</i>	NM_001781
<i>CD7</i>	NM_006137
<i>CD70</i>	NM_001252
<i>CD72</i>	NM_001782
<i>CD74</i>	NM_004355
<i>CD79A</i>	NM_001783
<i>CD79B</i>	NM_000626
<i>CD80</i>	NM_005191
<i>CD83</i>	NM_004233
<i>CD8A</i>	NM_001768
<i>CD8B</i>	NM_004931
<i>CD96</i>	NM_005816
<i>CHST10</i>	NM_004854
<i>COL1A1</i>	NM_000088
<i>CR2</i>	NM_001877
<i>CSF1R</i>	NM_005211
<i>CTLA4</i>	NM_005214
<i>DPP4</i>	NM_001935
<i>ENG</i>	NM_000118

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<i>FCER2</i>	NM_002002
<i>FCGR1A</i>	NM_000566
<i>HLA-A</i>	NM_002116
<i>HLA-DRA</i>	NM_019111
<i>ICAM2</i>	NM_000873
<i>IL12RB1</i>	NM_005535
<i>IL1R2</i>	NM_004633
<i>IL2RA</i>	NM_000417
<i>ITGA1</i>	NM_181501
<i>ITGA2</i>	NM_002203
<i>ITGA3</i>	NM_002204
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<i>KLRC1</i>	NM_002259
<i>KLRD1</i>	NM_002262
<i>KRT5</i>	NM_000424
<i>MS4A1</i>	NM_021950
<i>MYH10</i>	NM_005964
<i>MYH9</i>	NM_002473
<i>MYOCD</i>	NM_153604
<i>NOS3</i>	NM_000603
<i>PECAM1</i>	NM_000442
<i>RETN</i>	NM_020415
<i>SELP</i>	NM_003005
<i>ST6GAL1</i>	NM_003032
<i>TNFRSF4</i>	NM_003327
<i>TNFRSF8</i>	NM_001243
<i>TPSAB1</i>	NM_003294
<i>VCAM1</i>	NM_001078
<i>VWF</i>	NM_000552
Stemness	
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<i>ABLIM1</i>	NM_001003408
<i>ACAP1</i>	NM_014716
<i>ACSBG1</i>	NM_015162
<i>ACTA1</i>	NM_001100
<i>ACTG2</i>	NM_001615.3
<i>ACTR3B</i>	NM_020445
<i>ACVR2B</i>	NM_001106
<i>ADAD2</i>	NM_139174
<i>ADAMTS8</i>	NM_007037
<i>ADCY1</i>	NM_021116
<i>ADCY5</i>	NM_183357
<i>ADD2</i>	NM_017488
<i>ADGRG2</i>	NM_005756
<i>ADGRG5</i>	NM_153837
<i>ADGRG6</i>	NM_198569

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<i>ADRA2B</i>	NM_000682
<i>ADRA2C</i>	NM_000683
<i>AFDN</i>	NM_005936
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<i>AGPAT5</i>	NM_018361
<i>AHSG</i>	NM_001622
<i>AIF1L</i>	NM_001002260
<i>AIM2</i>	NM_004833
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<i>AKAP1</i>	NM_139275
<i>AKIRIN1</i>	NM_024595
<i>ALAS2</i>	NM_000032
<i>ALOX15</i>	NM_001140
<i>ALPK3</i>	NM_020778
<i>ALPL</i>	NM_000478
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<i>AMT</i>	NM_000481
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