

Supplementary Table 1. Gene symbols and gene NM of all analysed housekeeping, chondrogenesis/IVD/growth factor-, stemness-, inflammation-, senescence- and angiogenesis-related genes.

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
Stemness	
<i>A4GALT</i>	NM_017436
<i>AASS</i>	NM_005763
<i>ABCC13</i>	NM_138726
<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
<i>ADGRL1</i>	NM_001008701
<i>ADGRV1</i>	NM_032119
<i>ADRA2A</i>	NM_000681
<i>ADRA2B</i>	NM_000682
<i>ADRA2C</i>	NM_000683
<i>AFDN</i>	NM_005936
<i>AGBL1</i>	NM_152336
<i>AGPAT5</i>	NM_018361
<i>AHSG</i>	NM_001622

<i>AIF1L</i>	NM_001002260
<i>AIM2</i>	NM_004833
<i>AJAP1</i>	NM_018836
<i>AK4</i>	NM_001005353
<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
<i>AMBP</i>	NM_001633
<i>AMER2</i>	NM_152704
<i>AMT</i>	NM_000481
<i>ANK3</i>	NM_020987
<i>ANKRD18B</i>	NM_001013728
<i>ANKRD40</i>	NM_052855
<i>ANO2</i>	NM_020373
<i>ANO4</i>	NM_178826
<i>ANO9</i>	NM_001012302
<i>ANXA3</i>	NM_005139
<i>ANXA9</i>	NM_003568
<i>AOC3</i>	NM_003734
<i>AP1M2</i>	NM_005498
<i>AP1S3</i>	NM_178814
<i>AP3B2</i>	NM_004644
<i>APOC1</i>	NM_001645
<i>APOE</i>	NM_000041
<i>AQP1</i>	NM_198098.3
<i>ARAP2</i>	NM_015230
<i>ARC</i>	NM_015193
<i>ARG2</i>	NM_001172
<i>ARHGAP19</i>	NM_032900
<i>ARHGAP25</i>	NM_001007231
<i>ARHGAP8</i>	NM_181335
<i>ARHGAP9</i>	NM_032496
<i>ARHGEF16</i>	NM_014448
<i>ARHGEF19</i>	NM_153213
<i>ARHGEF26</i>	NM_015595
<i>ARHGEF35</i>	NM_001003702
<i>ARHGEF39</i>	NM_032818
<i>ARL11</i>	NM_138450
<i>ARVCF</i>	NM_001670
<i>ASB12</i>	NM_130388
<i>ASB2</i>	NM_016150
<i>ASCL2</i>	NM_005170
<i>ASGR1</i>	NM_001671
<i>ASMT</i>	NM_004043
<i>ASNS</i>	NM_001673
<i>ASPHD2</i>	NM_020437
<i>ASRGL1</i>	NM_025080

<i>ATAD5</i>	NM_024857
<i>ATF3</i>	NM_004024
<i>ATF7IP2</i>	NM_024997
<i>ATP11A</i>	NM_032189
<i>ATP1A2</i>	NM_000702
<i>ATP1B2</i>	NM_001678
<i>ATP4A</i>	NM_000704
<i>ATP6V0A4</i>	NM_020632
<i>AUNIP</i>	NM_024037
<i>AURKB</i>	NM_004217
<i>AUTS2</i>	NM_015570
<i>AVPR2</i>	NM_000054
<i>B4GALNT4</i>	NM_178537
<i>BAIAP2L1</i>	NM_018842
<i>BAIAP2L2</i>	NM_025045
<i>BATF3</i>	NM_018664
<i>BCL11A</i>	NM_022893
<i>BCL11B</i>	NM_138553
<i>BCL2L11</i>	NM_138576
<i>BCL2L14</i>	NM_030766
<i>BCL6B</i>	NM_181844
<i>BEX5</i>	NM_001012978
<i>BHMT</i>	NM_001713
<i>BMP4</i>	NM_001202.4
<i>BNIP1</i>	NM_138279
<i>BRCA2</i>	NM_000059
<i>BRINP1</i>	NM_014618
<i>BSN</i>	NM_003458
<i>BSPRY</i>	NM_017688
<i>BST2</i>	NM_004335
<i>BTBD11</i>	NM_152322
<i>BUB1</i>	NM_004336
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<i>BXDC2</i>	NM_018321.3
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<i>C19orf33</i>	NM_033520
<i>C1orf100</i>	NM_001012970
<i>C1orf115</i>	NM_024709
<i>C1orf21</i>	NM_030806
<i>C1orf94</i>	NM_032884
<i>C1QR1</i>	NM_012072.3
<i>C1QTNF4</i>	NM_031909
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<i>C3orf52</i>	NM_024616
<i>C4orf19</i>	NM_018302
<i>C9orf135</i>	NM_001010940
<i>CA14</i>	NM_012113
<i>CA2</i>	NM_000067

<i>CA4</i>	NM_000717
<i>CA9</i>	NM_001216
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<i>CACNA1H</i>	NM_021098
<i>CACNA2D2</i>	NM_001005505
<i>CACNG6</i>	NM_145814
<i>CADPS</i>	NM_183393
<i>CALCB</i>	NM_000728
<i>CALHM3</i>	NM_182494
<i>CALN1</i>	NM_031468
<i>CAMTA1</i>	NM_015215
<i>CAPN12</i>	NM_144691
<i>CARD11</i>	NM_032415
<i>CASQ1</i>	NM_001231
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<i>CCDC138</i>	NM_144978
<i>CCDC148</i>	NM_138803
<i>CCDC150</i>	NM_173646
<i>CCDC181</i>	NM_021179
<i>CCDC3</i>	NM_031455
<i>CCL26</i>	NM_006072
<i>CCND2</i>	NM_001759
<i>CCNE1</i>	NM_001238
<i>CCNF</i>	NM_001761
<i>CCNJ</i>	NM_019084
<i>CCSAP</i>	NM_145257
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<i>CD71</i>	NM_003234.3
<i>CD73</i>	NM_002526.3
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<i>CD8B</i>	NM_172099
<i>CD9</i>	NM_001769.2
<i>CDC20</i>	NM_001255
<i>CDC25A</i>	NM_001789
<i>CDC6</i>	NM_001254
<i>CDC7</i>	NM_003503
<i>CDCA2</i>	NM_152562
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<i>CDCA7</i>	NM_031942
<i>CDH13</i>	NM_001257.4
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<i>CEP72</i>	NM_018140
<i>CERS4</i>	NM_024552
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<i>CHDH</i>	NM_018397
<i>CHEK2</i>	NM_001005735
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<i>CHRNA3</i>	NM_000743
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<i>CLMN</i>	NM_024726

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<i>CNTNAP3</i>	NM_033655
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<i>CXADR</i>	NM_001338
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<i>CXCR4</i>	NM_001008540
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<i>DEF6</i>	NM_022047
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<i>DEPDC4</i>	NM_152317
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<i>DHDH</i>	NM_014475
<i>DIDO1</i>	NM_022105
<i>DLG3</i>	NM_021120
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<i>DLK1</i>	NM_003836
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<i>DNMT3B</i>	NM_175850
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<i>DUSP16</i>	NM_030640
<i>DUSP2</i>	NM_004418
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<i>E2F8</i>	NM_024680
<i>EAF2</i>	NM_018456
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<i>ECEL1</i>	NM_004826

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<i>EDNRB</i>	NM_003991
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<i>EFNB2</i>	NM_004093
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<i>ELMO3</i>	NM_024712
<i>EME1</i>	NM_152463
<i>ENPP4</i>	NM_014936
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<i>EPCAM</i>	NM_002354
<i>EPHA1</i>	NM_005232
<i>EPHB6</i>	NM_004445
<i>EPN3</i>	NM_017957
<i>EPO</i>	NM_000799
<i>EPPK1</i>	NM_031308
<i>EPS8L1</i>	NM_133180
<i>EPS8L2</i>	NM_022772
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<i>ERC2</i>	NM_015576
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<i>ERG</i>	NM_004449
<i>ERVK-6</i>	NM_001007236
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<i>ETNPPL</i>	NM_031279
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<i>EXO1</i>	NM_003686
<i>EXOC6</i>	NM_001013848
<i>EXPH5</i>	NM_015065
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<i>EZH2</i>	NM_004456
<i>EZR</i>	NM_003379
<i>F11</i>	NM_000128
<i>F11R</i>	NM_144503
<i>F12</i>	NM_000505
<i>FAAH</i>	NM_001441
<i>FAAH2</i>	NM_174912
<i>FABP5</i>	NM_001444
<i>FABP6</i>	NM_001445
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<i>FAM221A</i>	NM_199136
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<i>FAM69B</i>	NM_152421
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<i>FAM72D</i>	NM_207418
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<i>FANCD2</i>	NM_001018115
<i>FANCD2</i>	NM_033084
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<i>FBXO2</i>	NM_012168
<i>FCGR2B</i>	NM_004001.4
<i>FCHO1</i>	NM_015122
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<i>FGF12</i>	NM_004113
<i>FGF13</i>	NM_004114
<i>FGF8</i>	NM_033163
<i>FGFBP3</i>	NM_152429
<i>FGFR2</i>	NM_023028
<i>FGFR3</i>	NM_000142
<i>FGFR4</i>	NM_213647
<i>FHDC1</i>	NM_033393
<i>FIGN</i>	NM_018086
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<i>FLT4</i>	NM_002020
<i>FLVCR1</i>	NM_014053
<i>FN3K</i>	NM_022158
<i>FNBP1L</i>	NM_017737
<i>FOS</i>	NM_005252
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<i>FOXG1</i>	NM_005249
<i>FOXH1</i>	NM_003923
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<i>FSTL4</i>	NM_015082
<i>FUT1</i>	NM_000148
<i>FXYD6</i>	NM_022003
<i>FXYD7</i>	NM_022006
<i>FZD7</i>	NM_003507

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<i>GABRB2</i>	NM_000813
<i>GABRB3</i>	NM_000814
<i>GADD45G</i>	NM_006705
<i>GAL</i>	NM_015973
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<i>GAL3ST3</i>	NM_033036
<i>GALNT12</i>	NM_024642
<i>GALNT3</i>	NM_004482
<i>GALNT9</i>	NM_021808
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<i>GCA</i>	NM_012198
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<i>GEN1</i>	NM_182625
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<i>GIN51</i>	NM_021067
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<i>GIN54</i>	NM_032336
<i>GJA4</i>	NM_002060
<i>GJB7</i>	NM_198568
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