

## *Supplementary Material*

**Table S1.** Patient characteristics

| Variables | N | Healthy control | AML patients   |                |
|-----------|---|-----------------|----------------|----------------|
|           |   |                 | Well prognosis | Poor prognosis |
| Gender    |   |                 |                |                |
| female    | 7 | 2               | 2              | 3              |
| male      | 7 | 3               | 2              | 2              |
| Age       |   |                 |                |                |
| >36       | 8 | 3               | 2              | 3              |
| <=36      | 6 | 2               | 2              | 2              |

**Table S2.** Different expression protein in AML patients and healthy controls

| Protein Name | AML (n=9)        | Normal (n=5)    | <i>Fold change</i> | <i>P</i> |
|--------------|------------------|-----------------|--------------------|----------|
| THBS1        | 2714.40 ±1256.01 | 15736.97±3542.9 | 0.17               | < 0.01   |
| CXCL4        | 1416.77±816      | 7381.40±1306.33 | 0.19               | < 0.01   |
| MMP3         | 481.30±242.91    | 1770.79±419.61  | 0.27               | < 0.01   |
| SPARC        | 1022.08±350.39   | 3744.66±611.14  | 0.27               | < 0.01   |
| CSF1R        | 2361.21±368.16   | 310.32±34.69    | 7.61               | 0.04     |
| TNF          | 6988.11±1285.12  | 932.17±549.47   | 7.50               | 0.01     |
| IL6          | 6985.02±1517.8   | 963.86±492.32   | 7.25               | 0.01     |
| CSF1         | 13302.75±2721.75 | 2042.72±537.89  | 6.51               | 0.04     |
| IL4          | 3710.93±1397.06  | 677.03±97.14    | 5.48               | 0.03     |
| KITLG        | 2102.99±386.88   | 389.22±123.17   | 5.40               | < 0.01   |
| KIT          | 2197.03±328.98   | 408.82±178.88   | 5.37               | 0.02     |
| IL2RA        | 9013.22±2686.71  | 1683.55±307.1   | 5.35               | < 0.01   |
| LIFR         | 2779.06±429.04   | 556.36±84.95    | 5.00               | < 0.01   |
| IL26         | 1314.54±556.61   | 267.37±88.55    | 4.92               | 0.04     |

|          |                  |                |      |           |
|----------|------------------|----------------|------|-----------|
| IL3      | 4119.08±2867.97  | 984.35±219.62  | 4.18 | 0.05      |
| CCR9     | 10415.03±3363.64 | 3067.12±1575.8 | 3.40 | 0.03      |
| IL22RA2  | 1181.56±448.07   | 388.26±98.74   | 3.04 | 0.03      |
| IGFBP2   | 712.71±328.45    | 237.26±70.38   | 3.00 | 0.03      |
| IL16     | 428.09±245.86    | 152.98±42.77   | 2.80 | <<br>0.01 |
| CCL2     | 5753.51±1396.78  | 2081.60±611.6  | 2.76 | 0.05      |
| TIMP3    | 1238.03±352.81   | 454.43±118.56  | 2.72 | <<br>0.01 |
| FAS      | 3359.07±669.94   | 1309.28±143.21 | 2.57 | 0.04      |
| IL15     | 6757.29±1119.3   | 2639.64±906    | 2.56 | 0.01      |
| CXCL10   | 714.37±242.56    | 279.79±25.06   | 2.55 | 0.04      |
| IL2RB    | 1763.09±588.41   | 702.56±297.32  | 2.51 | 0.03      |
| IL20     | 2553.77±885.01   | 1018.15±312.06 | 2.51 | 0.04      |
| IL36B    | 2857.94±793.14   | 1195.39±325.05 | 2.39 | 0.01      |
| FGL1     | 1958.83±610.59   | 881.22±245.14  | 2.22 | 0.03      |
| TMPO     | 1680.45±781.97   | 794.06±170.76  | 2.12 | 0.04      |
| CCL1     | 793.71±305.34    | 388.95±178.92  | 2.04 | 0.02      |
| CCL8     | 544.91±220.07    | 272.12±72.35   | 2.00 | 0.02      |
| IL1RAPL1 | 2032.15±848.63   | 1017.77±309.11 | 2.00 | 0.01      |
| FGF7     | 721.13±296.49    | 362.46±202.07  | 1.99 | 0.02      |
| INHBA    | 1170.68±492.52   | 602.16±123.87  | 1.94 | 0.04      |

|          |                  |                  |      |           |
|----------|------------------|------------------|------|-----------|
| KREMEN1  | 1328.14±375.04   | 702.40±213.77    | 1.89 | 0.05      |
| FGFBP    | 765.37±289.68    | 409.03±154.73    | 1.87 | 0.05      |
| CRIM1    | 1160.03±434.9    | 665.91±180.54    | 1.74 | 0.03      |
| CCL17    | 588.53±157.46    | 342.28±71.27     | 1.72 | 0.04      |
| MFRP     | 1268.82±385.2    | 751.45±243.19    | 1.69 | 0.05      |
| IL1RAPL2 | 2114.87±773.4    | 1254.36±245.78   | 1.69 | 0.02      |
| ACVR2B   | 977.34±282.68    | 582.86±89.55     | 1.68 | 0.04      |
| IGFBP1   | 917.55±237.94    | 559.45±200.01    | 1.64 | 0.04      |
| ANGPT2   | 1178.79±402.7    | 724.04±123.74    | 1.63 | 0.03      |
| GFRA3    | 1652.33±565.56   | 1020.65±267.9    | 1.62 | 0.05      |
| NRG2     | 3198.47±1100.39  | 1983.76±367.96   | 1.61 | 0.04      |
| GFRA4    | 1649.28±557.4    | 1035.79±165.24   | 1.59 | 0.03      |
| TYRO3    | 1076.69±304.44   | 677.83±139.06    | 1.59 | 0.04      |
| MST1     | 1359.94±429.96   | 878.14±204.86    | 1.55 | <<br>0.01 |
| MMP2     | 4937.18±1462.68  | 3209.62±687.46   | 1.54 | 0.03      |
| LTA      | 5692.33±1498.67  | 3720.46±733.13   | 1.53 | 0.05      |
| CCL21    | 4246.23±801.97   | 2820.45±206.95   | 1.51 | 0.04      |
| MFGE8    | 10851.23±1155.83 | 7226.89±823.34   | 1.50 | 0.04      |
| ADIPOR2  | 15035.13±3882.89 | 10040.56±1890.65 | 1.50 | 0.03      |
| PLAUR    | 1050.79±298.6    | 707.32±151.84    | 1.49 | 0.05      |

|          |                  |                  |      |      |
|----------|------------------|------------------|------|------|
| ENG      | 1567.92±439.05   | 1056.83±183.55   | 1.48 | 0.03 |
| TMEFF1   | 40532.49±9878.23 | 27418.34±6044.31 | 1.48 | 0.02 |
| ICAM5    | 6198.55±1191.02  | 4327.53±939.26   | 1.43 | 0.03 |
| MSTN     | 3129.05±680.89   | 2200.51±544.48   | 1.42 | 0.03 |
| ANG      | 3917.19±998.02   | 2755.17±190.95   | 1.42 | 0.01 |
| TNFRSF18 | 2885.28±631.89   | 2108.83±363.84   | 1.37 | 0.01 |
| LCN1     | 29911.83±4756.36 | 22811.21±2351.31 | 1.31 | 0.04 |
| GPNMB    | 8504.70±937.22   | 6564.07±1058.34  | 1.30 | 0.01 |
| INSR     | 14302.23±1916.6  | 11386.02±1125.98 | 1.26 | 0.01 |
| TRADD    | 8145.56±1092.11  | 6762.74±757.8    | 1.20 | 0.01 |

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**Table S3.** Different expression protein in AML patients with well prognosis and poor prognosis

| Protein Name | Well prognosis (n=6) | Poor prognosis (n=5) | Fold change | P      |
|--------------|----------------------|----------------------|-------------|--------|
| TIMP1        | 11805.03 ±1109.84    | 7185.49 ±1551.25     | 0.61        | <0.05  |
| IGFBP1       | 686.88 ±122.52       | 1102.1 ±115.24       | 1.60        | <0.05  |
| SELL         | 951.99 ±242.75       | 1784.52 ±283.75      | 1.87        | <0.05  |
| SAA1         | 2677.4 ±653.4        | 6890.68 ±2085.87     | 2.57        | <0.05  |
| TIMP2        | 207.68 ±5.58         | 784.14 ±321.8        | 3.78        | <0.05  |
| COL18A1      | 423.45 ±92.76        | 646.42 ±95.95        | 1.53        | <0.05  |
| LBP          | 4367.86 ±512.09      | 8659.06 ±2461.9      | 1.98        | <0.05  |
| IL17RD       | 2558.63 ±581.81      | 4925.83 ±1332.99     | 1.93        | <0.05  |
| CXCL2        | 5154.42 ±1021.86     | 7865.88 ±1536.42     | 1.53        | <0.05  |
| VEGFD        | 2011.11 ±68.6        | 2615.46 ±399.24      | 1.30        | <0.05  |
| PLAU         | 10289.22 ±3165.27    | 14541.45 ±713.79     | 1.41        | <0.05  |
| FGF19        | 514.22 ±25.13        | 1523.58 ±550.84      | 2.96        | < 0.01 |