**Supplementary Table 1. The results of the Proteome ProflerTM Array using the Mouse XL Cytokine Kit**

|  |  |  |
| --- | --- | --- |
| Coordinate& Target | HepG2- xenografted tumor | SMMC-7721-xenografted tumor |
| Pixel Density | Fold | Pixel Density | Fold |
| CTRL | Treated | CTRL | Treated |
| (A3-A4)(Adiponectin/Acrp30) | 0.8415  | 0.8636  | 1.03  | 0.7349 | 0.8408 | 1.14  |
| **(A5-A6)(Amphiregulin)** | **0.0793**  | **0.2072**  | **2.61**  | 0.0984 | 0.1404 | 1.43  |
| **(A7-A8)(Angiopoietin-1)** | **0.0700**  | **0.1457**  | **2.08**  | 0.0704 | 0.1048 | 1.49  |
| **(A9-A10)(Angiopoietin-2)** | **0.0778**  | **0.1225**  | **1.58**  | **0.0866** | **0.1414** | **1.63**  |
| (A11-A12)(Angiopoietin-like 3) | 0.1196  | 0.1439  | 1.20  | 0.1068 | 0.1298 | 1.22  |
| **(A13-A14)(BAFF/BLyS/TNFSF13B)** | **0.2080**  | **0.1015**  | **0.49**  | 0.1159 | 0.1135 | 0.98  |
| (A15-A16)(C1q R1/CD93) | 0.1921  | 0.1751  | 0.91  | 0.1152 | 0.1334 | 1.16  |
| **(A17-A18)(CCL2/JE/MCP-1)** | 0.1226  | 0.1125  | 0.92  | **0.0562** | **0.0933** | **1.66**  |
| **(A19-A20)(CCL3/CCL4 MIP-1 alpha/beta)** | 0.1190  | 0.1321  | 1.11  | **0.0784** | **0.1177** | **1.50**  |
| (A21-A22)(CCL5/RANTES) | 0.3628  | 0.2438  | 0.67  | 0.2451 | 0.2002 | 0.82  |
| **(B3-B4)(CCL6/C10)** | **0.6013**  | **0.9873**  | **1.64**  | 0.8929 | 0.9780 | 1.10  |
| **(B5-B6)(CCL11/Eotaxin)** | **0.1671**  | **0.8583**  | **5.14**  | **0.4731** | **0.8059** | **1.70**  |
| **(B7-B8)(CCL12/MCP-5)** | **0.1403**  | **0.2995**  | **2.13**  | 0.1770 | 0.2058 | 1.16  |
| (B9-B10)(CCL17/TARC) | 0.1554  | 0.2321  | 1.49  | 0.2354 | 0.2196 | 0.93  |
| (B11-B12)(CCL19/MIP-3 beta) | 0.1823  | 0.1566  | 0.86  | 0.1155 | 0.1409 | 1.22  |
| (B13-B14)(CCL20/MIP-3 alpha) | 0.1094  | 0.1001  | 0.92  | 0.0682 | 0.0825 | 1.21  |
| (B15-B16)(CCL21/6Ckine) | 0.9453  | 0.6439  | 0.68  | 0.3447 | 0.4534 | 1.32  |
| (B17-B18)(CCL22/MDC) | 0.6063  | 0.3069  | 0.51  | 0.2763 | 0.2550 | 0.92  |
| **(B19-B20)(CD14)** | **0.1890**  | **0.3878**  | **2.05**  | 0.4414 | 0.4328 | 0.98  |
| (B21-B22)(CD40/TNFRSF5) | 0.9843  | 0.9509  | 0.97  | 0.9106 | 0.9891 | 1.09  |
| **(C3-C4)(CD160)** | **0.1111**  | **0.2244**  | **2.02**  | 0.1312 | 0.1709 | 1.30  |
| **(C5-C6)(Chemerin)** | **0.1572**  | **0.3669**  | **2.33**  | 0.2721 | 0.3064 | 1.13  |
| **(C7-C8)(Chitinase 3-like 1)** | **0.4491**  | **0.7344**  | **1.64**  | 0.7311 | 0.7302 | 1.00  |
| **(C9-C10)(Coagulation Factor III/ Tissue Factor)** | **0.5449**  | **0.8791**  | **1.61**  | 0.9188 | 0.9378 | 1.02  |
| (C11-C12)(Complement Component C5/C5a) | 0.1135  | 0.1685  | 1.48  | 0.1634 | 0.1758 | 1.08  |
| (C13-C14)(Complement Factor D) | 0.3713  | 0.4959  | 1.34  | 0.3954 | 0.3355 | 0.85  |
| (C15-C16)(C-Reactive Protein/CRP) | 0.1291  | 0.0904  | 0.70  | 0.1132 | 0.0929 | 0.82  |
| **(C17-C18)(CX3CL1/Fractalkine)** | 0.1230  | 0.1063  | 0.86  | **0.0634** | **0.1061** | **1.67**  |
| **(C19-C20)(CXCL1/KC)** | 0.0565  | 0.0774  | 1.37  | **0.0606** | **0.1075** | **1.77**  |
| **(C21-C22)(CXCL2/MIP-2)** | 0.2261  | 0.2847  | 1.26  | **0.2602** | **0.6195** | **2.38**  |
| (D1-D2)(CXCL9/MIG) | 0.2471  | 0.1599  | 0.65  | 0.1553 | 0.1365 | 0.88  |
| (D3-D4)(CXCL10/IP-10) | 0.0928  | 0.1246  | 1.34  | 0.0947 | 0.0894 | 0.94  |
| (D5-D6)(CXCL11/I-TAC) | 0.1092  | 0.1258  | 1.15  | 0.0990 | 0.1173 | 1.18  |
| **(D7-D8)(CXCL13/BLC/BCA-1)** | **0.6045**  | **0.1780**  | **0.29**  | **0.5035** | **0.1555** | **0.31**  |
| **(D9-D10)(CXCL16)** | **0.1359**  | **0.2973**  | **2.19**  | 0.1955 | 0.2629 | 1.34  |
| (D11-D12)(Cystatin C) | 0.5241  | 0.5059  | 0.97  | 0.5072 | 0.4558 | 0.90  |
| (D13-D14)(DKK-1) | 0.1362  | 0.1295  | 0.95  | 0.1093 | 0.1258 | 1.15  |
| (D15-D16)(DPPIV/CD26) | 0.4565  | 0.4349  | 0.95  | 0.4889 | 0.4705 | 0.96  |
| (D17-D18)(EGF) | 0.1136  | 0.1371  | 1.21  | 0.1006 | 0.1225 | 1.22  |
| (D19-D20)(Endoglin/CD105) | 0.5968  | 0.7186  | 1.20  | 0.8732 | 0.7659 | 0.88  |
| (D21-D22)(Endostatin) | 0.3859  | 0.5752  | 1.49  | 0.4900 | 0.6139 | 1.25  |
| (D23-D24)(Fetuin A/AHSG) | 0.3725  | 0.3316  | 0.89  | 0.3175 | 0.3041 | 0.96  |
| (E1-E2)(FGF acidic) | 0.2768  | 0.3544  | 1.28  | 0.2715 | 0.1511 | 0.56  |
| **(E3-E4)(FGF-21)** | **0.0868**  | **0.1310**  | **1.51**  | 0.1013 | 0.0914 | 0.90  |
| (E5-E6)(Flt-3 Ligand) | 0.1309  | 0.1636  | 1.25  | 0.1276 | 0.1321 | 1.04  |
| **(E7-E8)(Gas 6)** | **0.1604**  | **0.2662**  | **1.66**  | 0.2337 | 0.2116 | 0.91  |
| (E9-E10)(G-CSF) | 0.1004  | 0.1376  | 1.37  | 0.1299 | 0.1270 | 0.98  |
| **(E11-E12)(GDF-15)** | **0.1339**  | **0.2036**  | **1.52**  | 0.1779 | 0.1809 | 1.02  |
| (E13-E14)(GM-CSF) | 0.0535  | 0.0778  | 1.45  | 0.0565 | 0.0763 | 1.35  |
| **(E15-E16)(HGF)** | **0.1219**  | **0.2009**  | **1.65**  | 0.2020 | 0.2169 | 1.07  |
| (E17-E18)(ICAM-1/CD54) | 0.2510  | 0.2443  | 0.97  | 0.1932 | 0.2491 | 1.29  |
| (E19-E20)(IFN-gamma) | 0.1194  | 0.1661  | 1.39  | 0.1207 | 0.1535 | 1.27  |
| **(E21-E22)(IGFBP-1)** | 0.0825  | 0.0971  | 1.18  | **0.0452** | **0.1092** | **2.42**  |
| (E23-E24)(IGFBP-2) | 0.1203  | 0.1137  | 0.94  | 0.0783 | 0.1141 | 1.46  |
| **(F1-F2)(IGFBP-3)** | **0.1146**  | **0.2065**  | **1.80**  | 0.2083 | 0.1894 | 0.91  |
| (F3-F4)(IGFBP-5) | 0.1778  | 0.1274  | 0.72  | 0.1015 | 0.0874 | 0.86  |
| (F5-F6)(IGFBP-6) | 0.1711  | 0.2244  | 1.31  | 0.2627 | 0.2036 | 0.78  |
| **(F7-F8)(IL-1 alpha/IL-1F1)** | **0.3661**  | **0.6831**  | **1.87**  | 0.8255 | 0.7556 | 0.92  |
| **(F9-F10)(IL-1 beta/ IL-1F2)** | **0.0771**  | **0.1316**  | **1.71**  | 0.1247 | 0.1431 | 1.15  |
| (F11-F12)(IL-1ra/IL-1F3) | 0.8026  | 0.9005  | 1.12  | 1.1160 | 0.9284 | 0.83  |
| **(F13-F14)(IL-2)** | **0.0291**  | **0.0601**  | **2.06**  | **0.0405** | **0.0626** | **1.55**  |
| **(F15-F16)(IL-3)** | **0.0282**  | **0.0487**  | **1.73**  | **0.0225** | **0.0533** | **2.37**  |
| (F17-F18)(IL-4) | 0.1535  | 0.1917  | 1.25  | 0.1325 | 0.1474 | 1.11  |
| (F19-F20)(IL-5) | 0.0990  | 0.1187  | 1.20  | 0.0803 | 0.0970 | 1.21  |
| **(F21-F22)(IL-6)** | **0.0328**  | **0.0660**  | **2.01**  | **0.0283** | **0.0577** | **2.04**  |
| (F23-F24)(IL-7) | 0.1339  | 0.1297  | 0.97  | 0.0876 | 0.1247 | 1.42  |
| (G1-G2)(IL-10) | 0.1391  | 0.1685  | 1.21  | 0.1286 | 0.1437 | 1.12  |
| (G3-G4)(IL-11) | 0.1357  | 0.1790  | 1.32  | 0.1482 | 0.1405 | 0.95  |
| **(G5-G6)(IL-12p40)** | **0.1072**  | **0.1709**  | **1.59**  | 0.1466 | 0.1549 | 1.06  |
| **(G7-G8)(IL-13)** | **0.1117**  | **0.1830**  | **1.64**  | **0.1475** | **0.2425** | **1.64**  |
| (G9-G10)(IL-15) | 0.1751  | 0.2062  | 1.18  | 0.1945 | 0.2102 | 1.08  |
| **(G11-G12)(IL-17A)** | **0.0636**  | **0.1964**  | **3.09**  | **0.1190** | **0.1877** | **1.58**  |
| **(G13-G14)(IL-22)** | **0.0680**  | **0.1098**  | **1.61**  | 0.0960 | 0.0981 | 1.02  |
| (G15-G16)(IL-23) | 0.0893  | 0.1032  | 1.16  | 0.0848 | 0.0896 | 1.06  |
| (G17-G18)(IL-27p28) | 0.1193  | 0.1284  | 1.08  | 0.0981 | 0.1048 | 1.07  |
| (G19-G20)(IL-28) | 0.1848  | 0.1928  | 1.04  | 0.1397 | 0.1416 | 1.01  |
| **(G21-G22)(IL-33)** | **0.3786**  | **0.7798**  | **2.06**  | 0.7374 | 0.6642 | 0.90  |
| (G23-G24)(LDL R) | 0.1321  | 0.1476  | 1.12  | 0.0990 | 0.1412 | 1.43  |
| (H1-H2)(Leptin) | 0.1350  | 0.1328  | 0.98  | 0.1069 | 0.1287 | 1.20  |
| (H3-H4)(LIF) | 0.1582  | 0.1899  | 1.20  | 0.1518 | 0.1691 | 1.11  |
| (H5-H6)(Lipocalin-2/NGAL) | 0.1682  | 0.2179  | 1.30  | 0.2115 | 0.2235 | 1.06  |
| **(H7-H8)(LIX)** | **0.1984**  | **0.7776**  | **3.92**  | 0.9024 | 0.9474 | 1.05  |
| (H9-H10)(M-CSF) | 0.1326  | 0.1955  | 1.47  | 0.1963 | 0.2058 | 1.05  |
| **(H11-H12)(MMP-2)** | **0.2205**  | **0.4858**  | **2.20**  | 0.5599 | 0.3918 | 0.70  |
| **(H13-H14)(MMP-3)** | **0.1471**  | **0.9295**  | **6.32**  | 0.9977 | 0.9079 | 0.91  |
| **(H15-H16)(MMP-9)** | **0.0289**  | **0.1221**  | **4.22**  | 0.1356 | 0.0965 | 0.71  |
| (H17-H18)(Myeloperoxidase) | 0.5474  | 0.5428  | 0.99  | 0.4504 | 0.4495 | 1.00  |
| **(H19-H20)(Osteopontin (OPN))** | **0.2032**  | **0.5258**  | **2.59**  | 0.2896 | 0.3231 | 1.12  |
| (H21-H22)(Osteoprotegerin/ TNFRSF11B) | 0.0589  | 0.0802  | 1.36  | 0.0650 | 0.0656 | 1.01  |
| (H23-H24)(PD-ECGF/ Thymidine phosphorylase) | 0.0577  | 0.0725  | 1.26  | 0.0567 | 0.0541 | 0.95  |
| (I1-I2)(PDGF-BB) | 0.1994  | 0.1889  | 0.95  | 0.1679 | 0.1637 | 0.98  |
| (I3-I4)(Pentraxin 2/SAP) | 0.1090  | 0.1300  | 1.19  | 0.1055 | 0.1083 | 1.03  |
| (I5-I6)(Pentraxin 3/ TSG-14) | 0.1655  | 0.1860  | 1.12  | 0.2805 | 0.1780 | 0.63  |
| **(I7-I8)(Periostin/OSF-2)** | **0.0694**  | **0.2605**  | **3.76**  | 0.2920 | 0.2161 | 0.74  |
| (I9-I10)(Pref-1/DLK-1/FA1) | 0.1526  | 0.2248  | 1.47  | 0.2380 | 0.1796 | 0.75  |
| (I11-I12)(Proliferin) | 0.1244  | 0.1856  | 1.49  | 0.1611 | 0.1553 | 0.96  |
| **(I13-I14)(Proprotein Convertase 9/ PCSK9)** | **0.1235**  | **0.2277**  | **1.84**  | 0.2032 | 0.2677 | 1.32  |
| (I15-I16)(RAGE) | 0.1268  | 0.1433  | 1.13  | 0.1218 | 0.1132 | 0.93  |
| (I17-I18)(RBP4) | 0.3691  | 0.3731  | 1.01  | 0.2634 | 0.3000 | 1.14  |
| (I19-I20)(Reg3G) | 0.5676  | 0.6992  | 1.23  | 0.6470 | 0.7520 | 1.16  |
| (I21-I22)(Resistin) | 0.7348  | 0.6490  | 0.88  | 0.5178 | 0.2880 | 0.56  |
| (J3-J4)(E-Selectin/CD62E) | 0.0779  | 0.0749  | 0.96  | 0.0651 | 0.0633 | 0.97  |
| (J5-J6)(P-Selectin/CD62P) | 0.1202  | 0.1681  | 1.40  | 0.2043 | 0.1543 | 0.75  |
| **(J7-J8)(Serpin E1/PAI-1)** | **0.1358**  | **0.2465**  | **1.82**  | 0.3715 | 0.3040 | 0.82  |
| (J9-J10)(Serpin F1/PEDF) | 0.7509  | 0.9841  | 1.31  | 1.0655 | 0.9161 | 0.86  |
| (J11-J12)(Thrombopoietin) | 0.0949  | 0.1313  | 1.38  | 0.1229 | 0.1071 | 0.87  |
| (J13-J14)(TIM-1/KIM-1/ HAVCR) | 0.2240  | 0.1506  | 0.67  | 0.1291 | 0.1404 | 1.09  |
| (J15-J16)(TNF-alpha) | 0.0844  | 0.1019  | 1.21  | 0.0840 | 0.0892 | 1.06  |
| (J17-J18)(VCAM-1/CD106) | 0.3437  | 0.3171  | 0.92  | 0.2483 | 0.2227 | 0.90  |
| (J19-J20)(VEGF) | 0.1312  | 0.1780  | 1.36  | 0.1330 | 0.1574 | 1.18  |
| **(J21-J22)(WISP-1/CCN4)** | **0.1241**  | **0.4796**  | **3.86**  | **0.7897** | **0.3270** | **0.41**  |

The marked word indicates that the change is > 50%.