**Supplementary Table 2. Relative protein expression of 84 cancer-related proteins in melanoma cell lines**

| Sl. No. | Positions of the Proteins on the Array | Proteins Name | WM278 | WM278 OPN-siRNA | WM1617 | WM1617 OPN-siRNA |
|---------|----------------------------------------|---------------|-------|----------------|--------|-----------------|
| A1/A2   | Reference spots                        |               | 100   | 100            | 100    | 100             |
| 1       | A3/A4                                  | α-Fetoprotein  | 0     | 0              | 8.70   | 15.86           |
| 2       | A5/A6                                  | Amphiregulin   | 0     | 0              | 0      | 4.18            |
| 3       | A7/A8                                  | Angiopoietin-1 | 9.98  | 0              | 0      | 4.07            |
| 4       | A9/A10                                 | Angiopoietin-like 4 | 0 | 0 | 8.20 | 17.06 |
| 5       | A11/A12                                | ENPP-2/Autotaxin | 0   | 0            | 5.14   | 18.91           |
| 6       | A13/A14                                | Axl           | 21.18 | 0            | 0      | 0               |
| 7       | A15/A16                                | BCL-x         | 0     | 0              | 6.21   | 0               |
| 8       | A17/A18                                | CA125/MUC16   | 0     | 0              | 0      | 0               |
| 9       | A19/A20                                | E-Cadherin    | 0     | 0              | 0      | 0               |
| 10      | A21/A22                                | VE-Cadherin   | 0     | 0              | 18.57  | 10.46           |
| 11      | B3/B4                                  | CapG          | 0     | 0              | 56.15  | 43.29           |
| 12      | B5/B6                                  | Carbonic Anhydrase IX | 0 | 0 | 11.97 | 10.52 |
| 13      | B7/B8                                  | Cathepsin B   | 9.76  | 0              | 25.34  | 18.23           |
| 14      | B9/B10                                 | Cathepsin D   | 11.03 | 0              | 21.97  | 27.24           |
| 15      | B11/B12                                | Cathepsin S   | 40.39 | 27.27         | 9.4    | 14.65           |
| 16      | B13/B14                                | CEACAM-5      | 0     | 0              | 0      | 6.1             |
| 17      | B15/B16                                | Decorin       | 0     | 0              | 0      | 5.24            |
| 18      | B17/B18                                | Dkk-1         | 0     | 0              | 0      | 0               |
| 19      | B19/B20                                | DLL1          | 0     | 0              | 4.83   | 9.58            |
| 20      | B21/B22                                | EGF/ErB1      | 32.34 | 14.19         | 25.8   | 12.42           |
| 21      | C3/C4                                  | Endoglin/CD105 | 22.89 | 23.22      | 33.53  | 45.6            |
| 22      | C5/C6                                  | Endostatin    | 0     | 0              | 0      | 0               |
| 23      | C7/C8                                  | Enolase 2     | 75.83 | 31.06         | 67.93  | 96.61           |
| 24      | C9/C10                                 | eNOS          | 0     | 0              | 0      | 4.37            |
| 25      | C11/C12                                | EpCAM/TROP1   | 0     | 0              | 0      | 3.12            |
| 26      | C13/C14                                | ERα/NR3A1     | 0     | 0              | 0      | 0               |
| 27      | C15/C16                                | ErB2          | 12.12 | 0            | 4.36   | 14.4            |
| 28      | C17/C18                                | ErB3/Her3     | 10.06 | 0            | 9.82   | 11.01           |
| 29      | C19/C20                                | ErB4          | 0     | 0              | 0      | 4.96            |
| 30      | C21/C22                                | FGF basic     | 33.02 | 6.36          | 8.89   | 13.77           |
| 31      | D1/D2                                  | FoxC2         | 0     | 0              | 0      | 0               |
| 32      | D3/D4                                  | FoxO1/FKHR    | 0     | 0              | 43.33  | 30.05           |
| 33      | D5/D6                                  | Galectin-3    | 63.83 | 12.9          | 82.67  | 88.84           |
| 34      | D7/D8                                  | GM-CSF        | 0     | 0              | 0      | 3.55            |
| 35      | D9/D10                                 | CG α/β (HCG)  | 0     | 0              | 13     | 8.8             |
| 36      | D11/D12                                | HGF R/c-Met   | 0     | 0              | 0      | 0               |
| 37      | D13/D14                                | HIF-1α        | 4.20  | 0            | 59.92  | 56.06           |
| 38      | D15/D16                                | HNF-3β        | 0     | 0              | 0      | 4.63            |
| 39      | D17/D18                                | HO-1/HMOX1    | 9.15  | 5.51          | 45.2   | 47.36           |
| 40      | D19/D20                                | ICAM-1/CD54   | 14.56 | 4.89          | 38.85  | 37.7            |
| 41      | D21/D22                                | IL-2 Rα       | 0     | 0              | 0      | 0               |
| 42      | D23/D24                                | IL-6          | 0     | 3.62          | 0      | 8.23            |
| 43      | E1/E2                                  | CXCL8/IL-8    | 34.09 | 46.58        | 0      | 0               |
| 44      | E3/E4                                  | IL-18 BPa     | 0     | 0              | 0      | 4.18            |
| 45      | E5/E6                                  | Kallikrein 3/PSA | 0   | 0            | 0      | 4.81            |
| 46      | E7/E8                                  | Kallikrein 5   | 0     | 0              | 0      | 0               |
| 47      | E9/E10                                 | Kallikrein 6   | 0     | 0              | 0      | 0               |
| 48      | E11/E12                                | Leptin        | 0     | 0              | 0      | 0               |
| 49      | E13/E14                                | Lumican       | 0     | 0              | 0      | 0               |
| Sl. No. | Positions of the Proteins on the Array | Proteins Name | WM278 | WM278 OPN-siRNA | WM1617 | WM1617 OPN-siRNA |
|--------|-------------------------------------|---------------|-------|-----------------|--------|-----------------|
| 50     | E15/E16                             | CCL2/MCP-1    | 96.97 | 14.32           | 0      | 0               |
| 51     | E17/E18                             | CCL8/MCP-2    | 0     | 0               | 0      | 5.03            |
| 52     | E19/E20                             | CCL7/MCP-3    | 0     | 0               | 0      | 0               |
| 53     | E21/E22                             | M-CSF         | 0     | 0               | 0      | 11.83           |
| 54     | E23/E24                             | Mesothelin    | 0     | 0               | 0      | 9.56            |
| 55     | F1/F2                               | CCL3/MIP-1α   | 0     | 0               | 0      | 0               |
| 56     | F3/F4                               | CCL20/MIP-3α  | 0     | 0               | 0      | 3.63            |
| 57     | F5/F6                               | MMP-2         | 0     | 0               | 0      | 3.77            |
| 58     | F7/F8                               | MMP-3         | 0     | 5.13            | 0      | 10.13           |
| 59     | F9/F10                              | MMP-9         | 0     | 0               | 0      | 0               |
| 60     | F11/F12                             | MSP/MST1      | 0     | 0               | 0      | 4.06            |
| 61     | F13/F14                             | MUC-1         | 0     | 0               | 0      | 4.26            |
| 62     | F15/F16                             | Nectin-4      | 0     | 0               | 0      | 4.07            |
| 63     | F17/F18                             | Osteopontin (OPN) | 78.09 | 41.58 | 48.9 | 30.72 |
| 64     | F19/F20                             | p27/Kip1      | 0     | 0               | 22.07  | 12.24          |
| 65     | F21/F22                             | p53           | 15.15 | 10.87 | 89.85 | 57.03          |
| 66     | F23/F24                             | PDGF-AA       | 12.67 | 0               | 0      | 6.78            |
| 67     | G1/G2                               | CD31/PECAM-1  | 0     | 0               | 0      | 0               |
| 68     | G3/G4                               | Progesterone R/NR3C3 | 0     | 0               | 0      | 0               |
| 69     | G5/G6                               | Progranulin   | 23.81 | 11.17 | 44.49 | 34.95          |
| 70     | G7/G8                               | Prolactin     | 0     | 0               | 0      | 7.37            |
| 71     | G9/G10                              | Prostasin/Prss8 | 0     | 0               | 0      | 0               |
| 72     | G11/G12                             | E-Selectin/CD62E | 0     | 0               | 0      | 0               |
| 73     | G13/G14                             | Serpin B3/Maspin | 0     | 0               | 0      | 0               |
| 74     | G15/G16                             | Serpin E1/PAI-1 | 0     | 0               | 0      | 5.94            |
| 75     | G17/G18                             | Snail         | 27.51 | 16.16 | 37.31 | 33.77          |
| 76     | G19/G20                             | SPARC         | 15.04 | 7.98  | 41.63 | 31.95          |
| 77     | G21/G22                             | Survivin      | 33.94 | 0     | 90.78  | 49.76          |
| 78     | G23/G24                             | Tenascin C    | 47.84 | 32.16 | 66.78 | 21.15          |
| 79     | H1/H2                               | Thrombospondin-1 | 0     | 0               | 0      | 0               |
| 80     | H3/H4                               | Tie-2         | 0     | 0               | 0      | 5.18            |
| 81     | H5/H6                               | u-Plasminogen Activator/Urokinase | 0     | 0               | 0      | 4.4             |
| 82     | H7/H8                               | VCAM-1/CD106  | 0     | 0               | 0      | 3.7             |
| 83     | H9/H10                              | VEGF          | 0     | 0               | 0      | 2.77            |
| 84     | H11/H12                             | Vimentin      | 16.77 | 25.68 | 31.25 | 31.06          |