

Second-generation JK-206 targets the oncogenic signal mediator RHOA in gastric cancer

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Supplementary data

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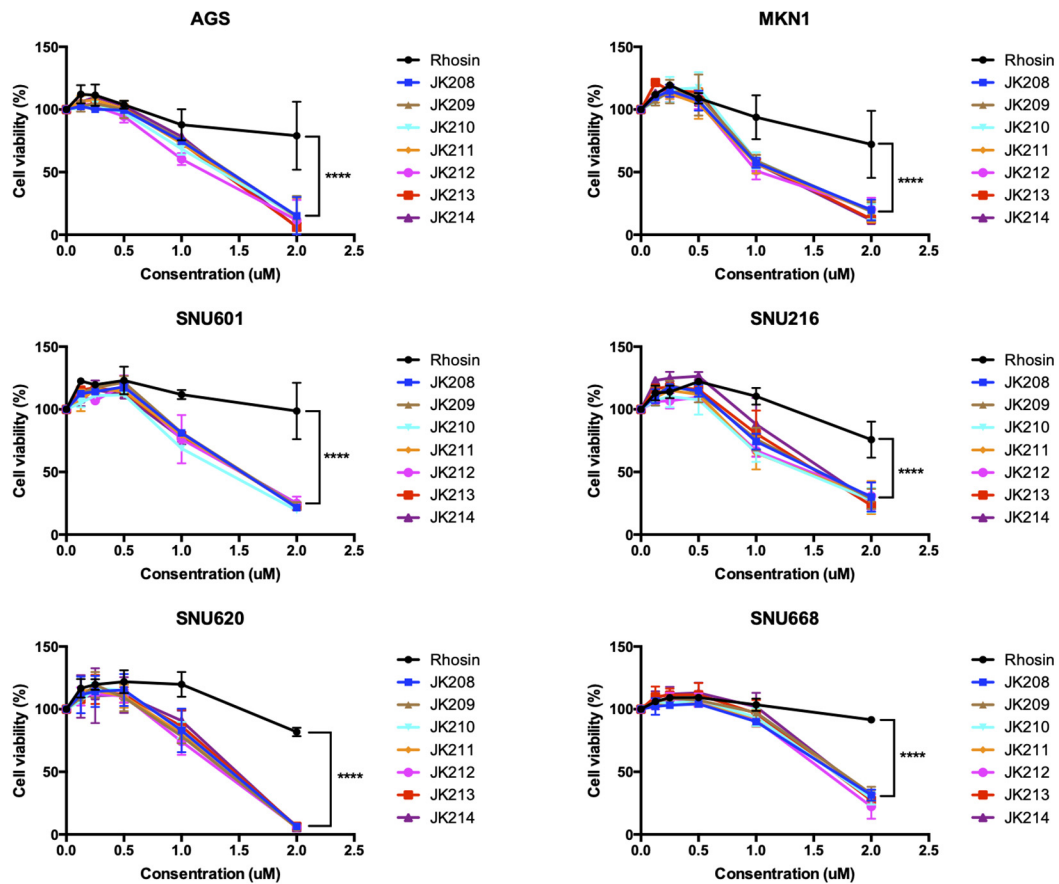
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Method S1. Synthesis of hydrazide derivatives

Table S1. A list of DEGs common and uncommon to JK-206 treated (versus DMSO treated) and JK-312 treated (versus DMSO treated) GC cells.

Cell viability assay
(Rhosin, JK-208 ~ JK-214)



Cell viability assay
(Rhosin, JK-301 ~ JK-307)

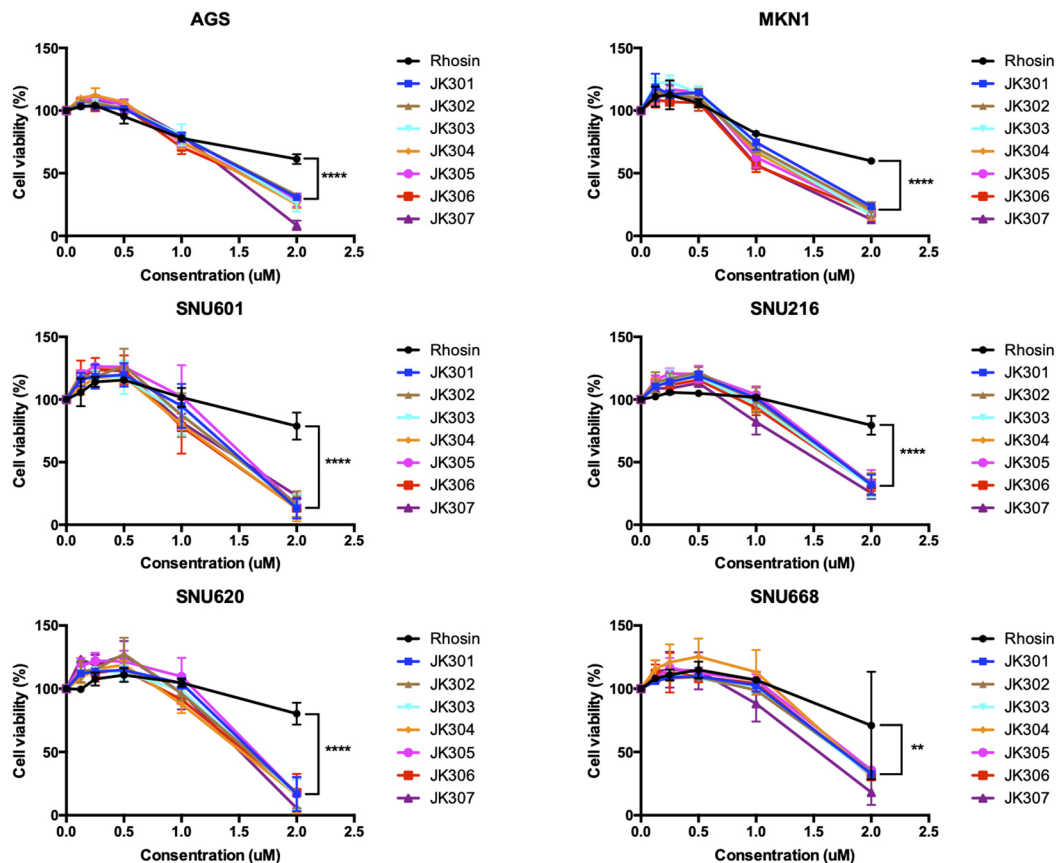


Figure S1. RHOA inhibitors suppress cell growth in GC. GC cell lines, AGS, MKN-1, SNU601, SNU216, SNU620, and SNU668 were treated with the 15 small molecule candidates included Rhosin (** p value < 0.01, **** p value < 0.0001).

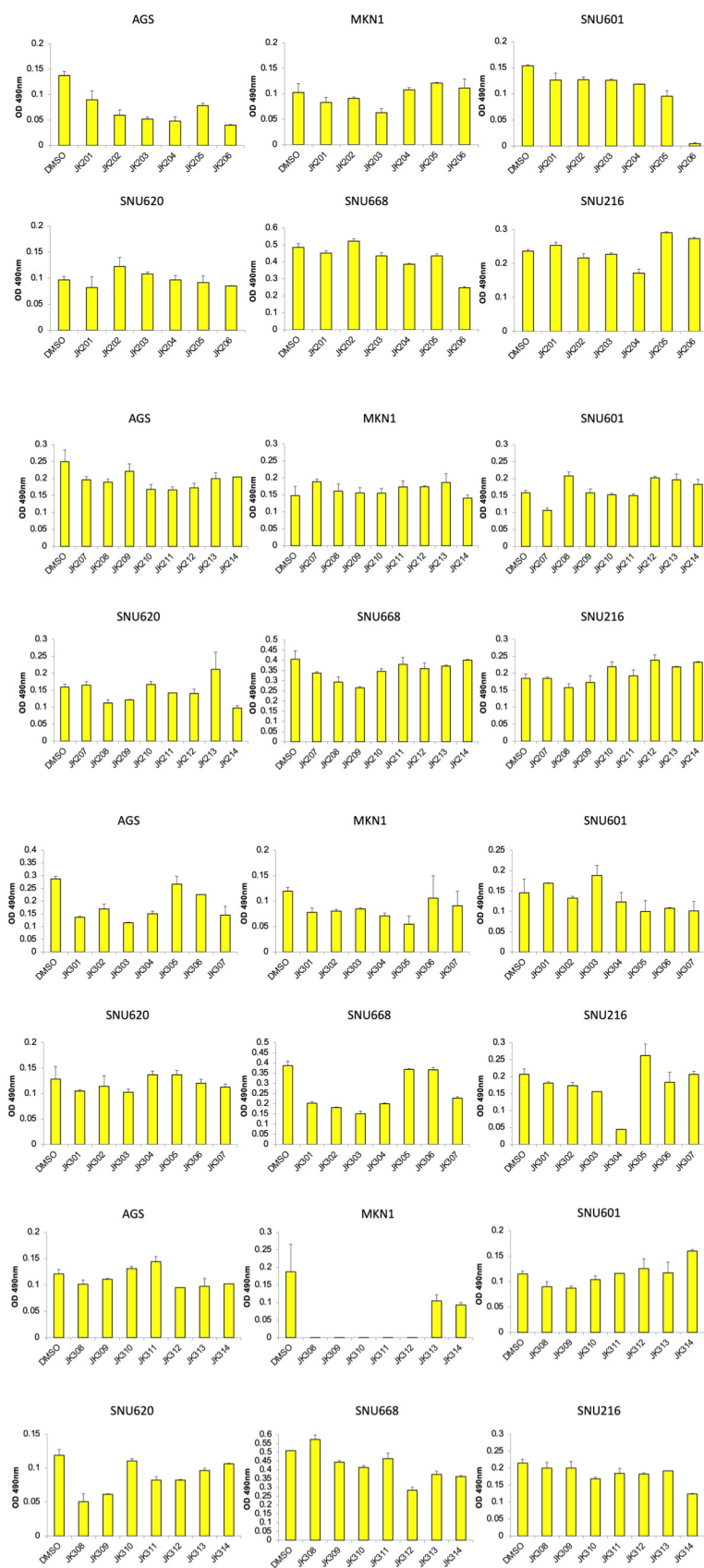


Figure S2. Cell viability assay at 2 μ M treatment.

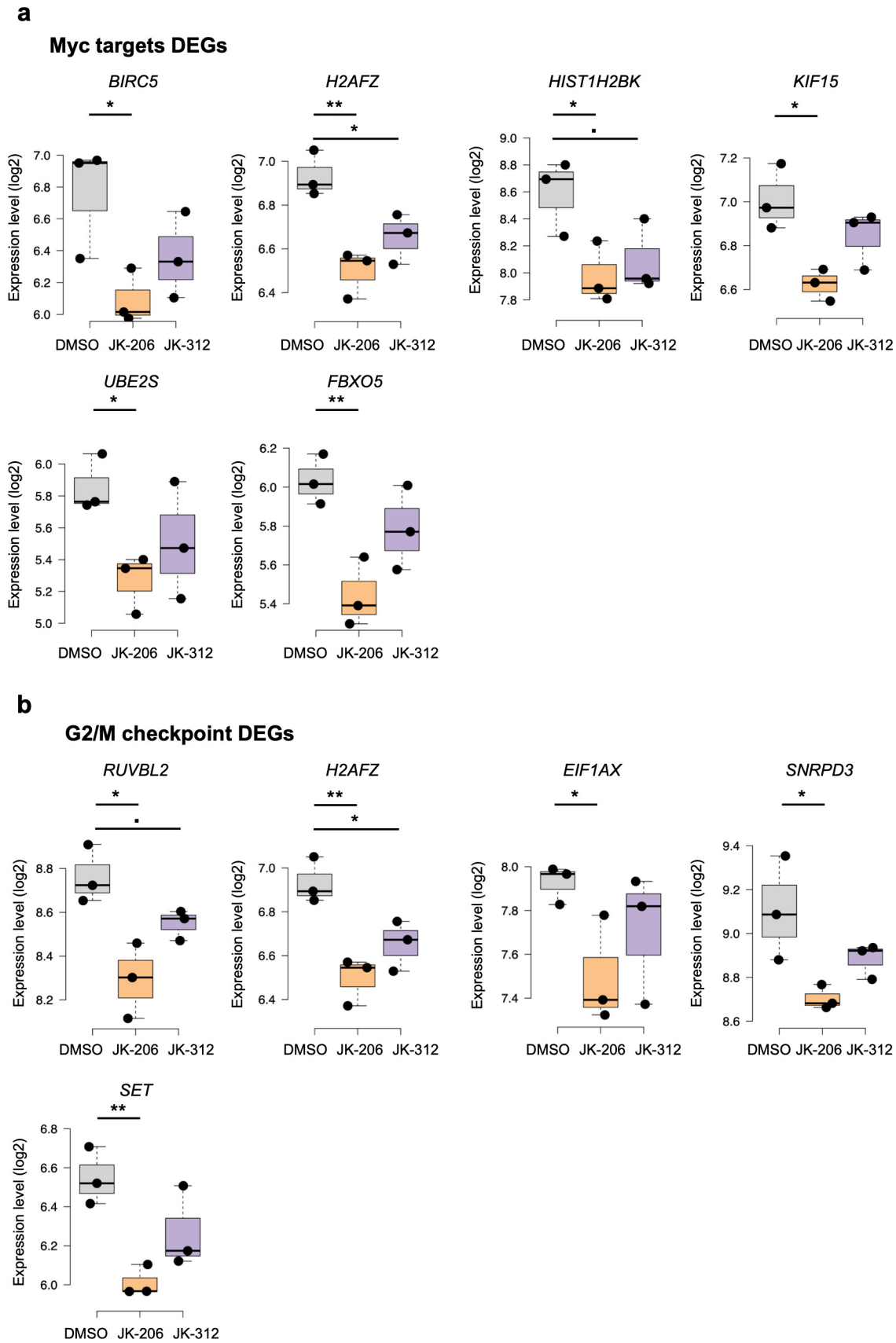


Figure S3. Expression patterns of the DEGs (depicted in Figure 4b) in JK-206, JK-312 and DMSO treatments in GC cells. (a) Gene expression profiles involved in the gene set of Myc targets. (b)

Gene expression profiles involved in the gene set of G2/M checkpoint. p value < 0.1 ; *, p value < 0.05 ; **, p value < 0.01 .

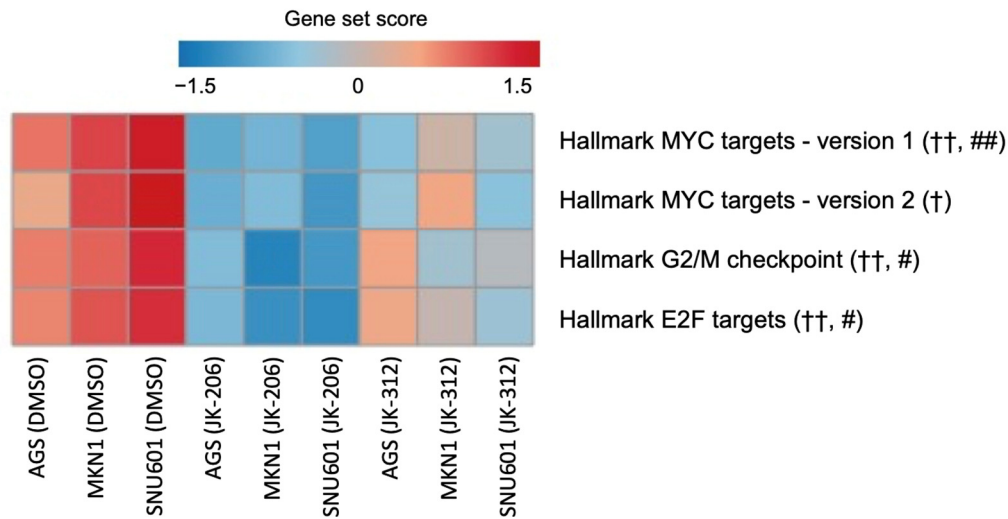


Figure S4. JK-206 and JK-312 treatments in GC cells down-regulated hallmark gene sets of Myc targets, G2/M checkpoint, and E2F targets compared to the DMSO treatment in GC cells. †, p value < 0.05 ; ††, p value < 0.01 ; JK-206 treated vs. DMSO treated GC cell lines; #, p value < 0.05 ; ##, p value < 0.01 ; JK-312 treated vs. DMSO treated GC cell lines (T test).

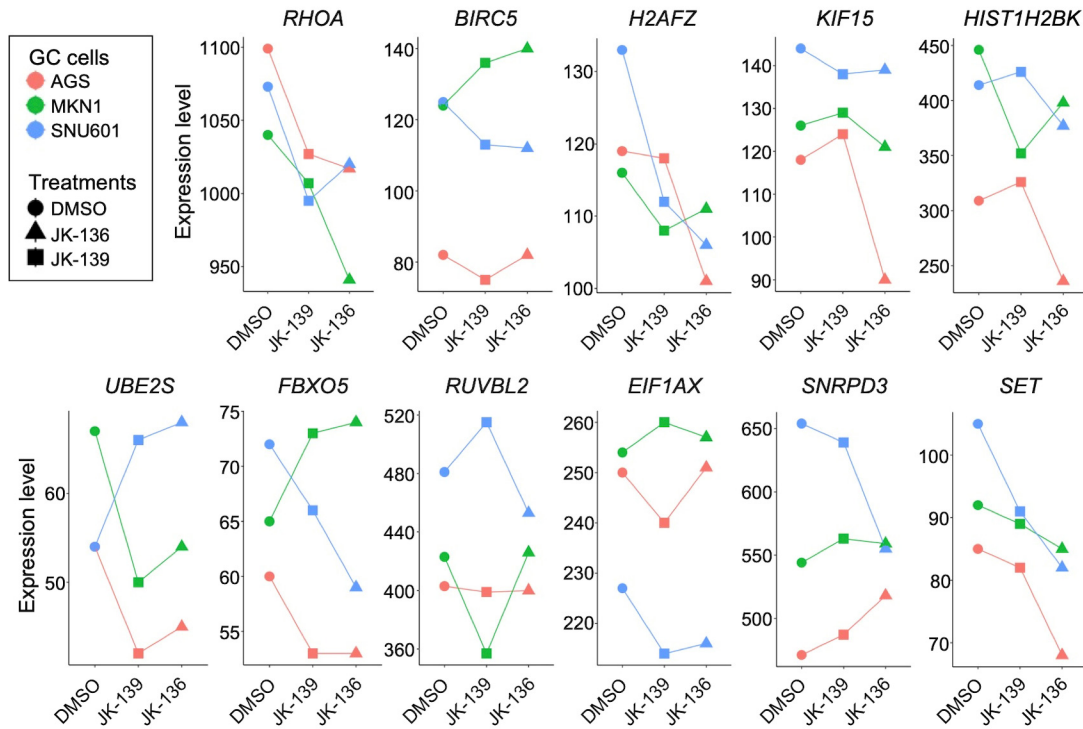


Figure S5. Expression patterns of the DEGs (depicted in Figure 4b) by another RHOA inhibitors in GC cells. Expression levels of *RHOA*, MYC target genes, G2/M checkpoint-related genes in JK-136-, JK-139-, and DMSO-treated GC cells. The data set was obtained from Gene Expression Omnibus (GEO) accession GSE135068 [1].

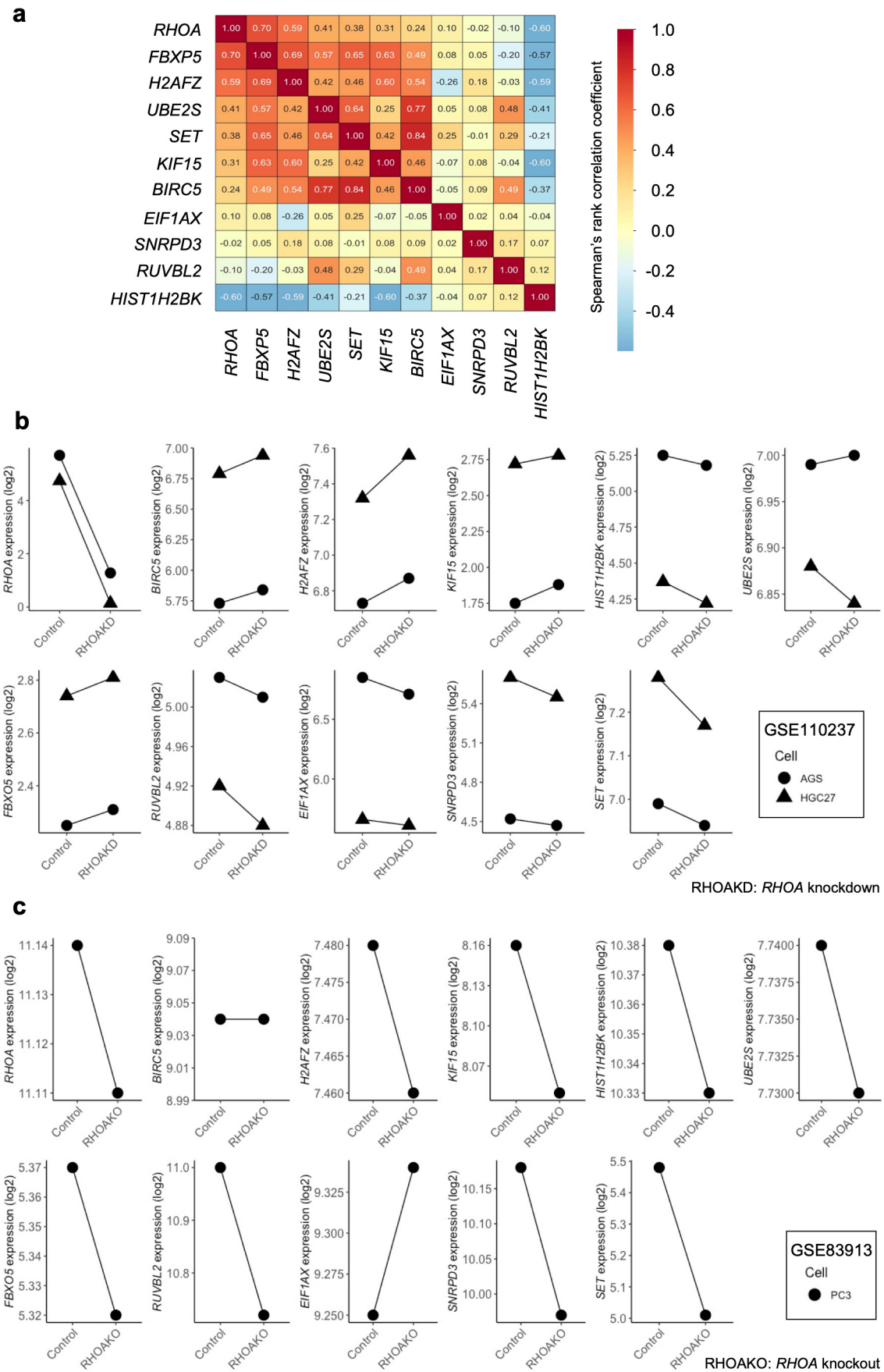


Figure S6. Correlations with *RHOA* and DEGs (depicted in Figure 4b) and expression patterns of the DEGs by knockdown and knockout of *RHOA* in GC and prostate cancer cells. (a) Heatmap of correlation coefficients of the ten DEGs (depicted in Figure 4b) with *RHOA* in 13 GC cell lines from

Cancer Cell Line Encyclopedia (CCLE) database [2]. **(b)** MRNA expression levels of *RHOA*, Myc target genes, G2/M checkpoint-related genes in GC cell lines (AGS and HGC27). The dataset was obtained from GEO accession GSE110237 [3]. **(c)** Expression levels of *RHOA*, Myc target genes, G2/M checkpoint-related genes in prostate cell line (PC3). The dataset was obtained from GEO accession GSE83913 [4].

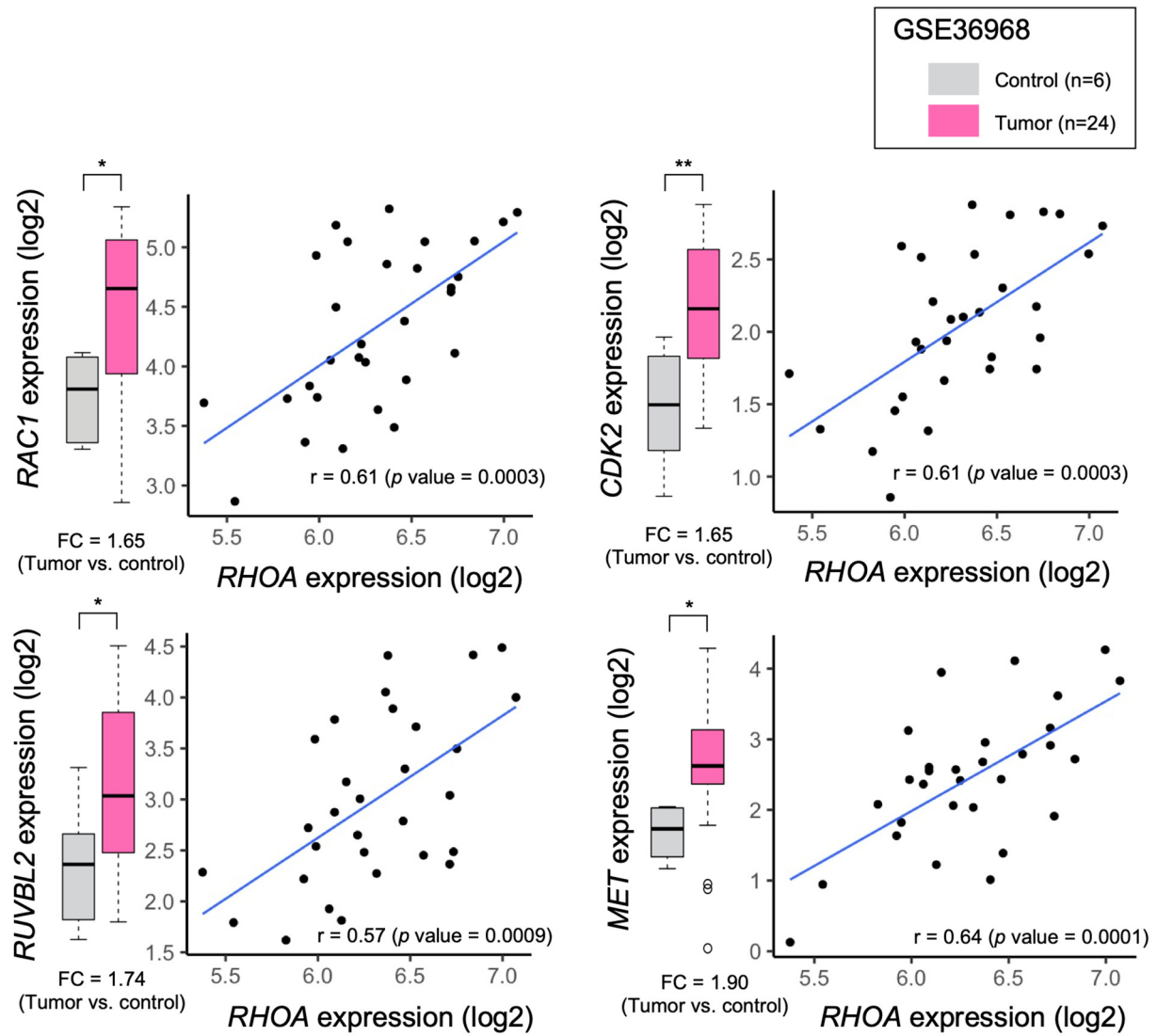


Figure S7. Differentially expressed genes in association with *RHOA* expression level in an independent GC dataset (GSE36968). Analyses of differentially expressed genes and Pearson's correlation coefficients were performed with 20 genes (excluding *RHOA*) from the network (Figure 5a) using the independent GC dataset (GSE36968). r : Pearson's correlation coefficient. Significance: *, p value < 0.05; **, p value < 0.01.

Supplementary Method S1

Synthesis of hydrazide derivatives

(E)-N'-(4-phenoxybenzylidene)benzenesulfonohydrazide (JK-201): a white solid; Yield: 78%; IR (ATR) cm^{-1} 3207, 1589, 1509, 1486, 1448; ^1H NMR (400 MHz, $\text{DMSO-}d_6$) δ 11.46 (s, 1H), 7.89 (m, 3H), 7.61 (m, 5H), 7.41 (t, $J = 8.0$ Hz, 2H), 7.18 (t, $J = 8.0$ Hz, 1H), 7.04 (d, $J = 8.0$ Hz, 2H), 6.98 (d, $J = 8.0$ Hz, 2H); ^{13}C NMR (100 MHz, $\text{DMSO-}d_6$) δ 158.45, 155.72, 146.58, 139.02, 135.47, 132.99, 130.16, 129.21, 128.66, 127.14, 124.10, 119.27, 118.25; HRMS (ESI) calcd for $\text{C}_{19}\text{H}_{16}\text{N}_2\text{O}_3\text{S}$ $[\text{M}+\text{H}]^+$ 353.0960; found 353.0956.

(E)-4-hydroxy-N'-(4-phenoxybenzylidene)benzohydrazide (JK-202): a white solid; Yield: 90%; IR (ATR) cm^{-1} 3171, 3027, 1642, 1604, 1585, 1561, 1502, 1486; ^1H NMR (400 MHz, $\text{DMSO-}d_6$) δ 11.60 (s, 1H), 10.12 (s, 1H), 8.42 (s, 1H), 7.81 (d, $J = 8.0$ Hz, 2H), 7.72 (d, $J = 8.0$ Hz, 2H), 7.43 (t, $J = 8.0$ Hz, 2H), 7.20 (t, $J = 8.0$ Hz, 1H), 7.09 (d, $J = 8.0$ Hz, 2H), 7.05 (d, $J = 8.0$ Hz, 2H), 6.86 (d, $J = 8.0$ Hz, 2H); ^{13}C NMR (100 MHz, $\text{DMSO-}d_6$) δ 162.63, 160.63, 158.33, 155.80, 146.19, 130.19, 129.62, 129.55, 128.80, 124.10, 123.90, 119.34, 118.28, 114.99; HRMS (ESI) calcd for $\text{C}_{20}\text{H}_{16}\text{N}_2\text{O}_3$ $[\text{M}+\text{H}]^+$ 333.1239; found 333.1248.

(E)-4-methoxy-N'-(4-phenoxybenzylidene)benzohydrazide (JK-203): a white solid; Yield: 79%; IR (ATR) cm^{-1} 3201, 3016, 1631, 1604, 1544, 1500; ^1H NMR (400 MHz, $\text{DMSO-}d_6$) δ 11.69 (s, 1H), 8.43 (s, 1H), 7.91 (d, $J = 8.0$ Hz, 2H), 7.73 (d, $J = 8.0$ Hz, 2H), 7.43 (t, $J = 8.0$ Hz, 2H), 7.20 (t, $J = 8.0$ Hz, 1H), 7.07 (m, 6H), 3.83 (s, 3H); ^{13}C NMR (100 MHz, $\text{DMSO-}d_6$) δ 162.42, 161.96, 158.40, 155.78, 146.52, 130.20, 129.47, 128.86, 125.47, 124.12, 119.36, 118.27, 113.69, 55.41; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{18}\text{N}_2\text{O}_3$ $[\text{M}+\text{H}]^+$ 347.1396; found 347.1403.

(E)-4-fluoro-N'-(4-phenoxybenzylidene)benzohydrazide (JK-204): a white solid; Yield: 75%; IR (ATR) cm^{-1} 3235, 3044, 1644, 1599, 1588, 1550, 1500, 1485; ^1H NMR (400 MHz, $\text{DMSO-}d_6$) δ 11.83 (s, 1H), 8.43 (s, 1H), 7.99 (m, 2H), 7.75 (d, $J = 8.0$ Hz, 2H), 7.44 (t, $J = 8.0$ Hz, 2H), 7.37 (t, $J = 8.0$ Hz, 2H), 7.20 (t, $J = 8.0$ Hz, 1H), 7.09 (d, $J = 8.0$ Hz, 2H), 7.06 (d, $J = 8.0$ Hz, 2H); ^{13}C NMR

(100 MHz, DMSO-*d*₆) δ 164.10 (d, J = 247.0 Hz), 161.94, 158.57, 155.73, 147.24, 130.29 (d, J = 9.0 Hz), 130.21, 129.89, 129.25, 128.99, 124.17, 119.41, 118.24, 115.44 (d, J = 21.0 Hz); HRMS (ESI) calcd for C₂₀H₁₅FN₂O₂ [M+H]⁺ 335.1196; found 335.1205.

(E)-3-nitro-N'-(4-phenoxybenzylidene)benzohydrazide (JK-205): a white solid; Yield: 89%; IR (ATR) cm⁻¹ 3186, 3031, 1645, 1600, 1554, 1529, 1504, 1488; ¹H NMR (400 MHz, DMSO-*d*₆) δ 12.12 (s, 1H), 8.76 (s, 1H), 8.47 (s, 1H), 8.44 (d, J = 8.0 Hz, 1H), 8.37 (d, J = 8.0 Hz, 1H), 7.84 (t, J = 8.0 Hz, 1H), 7.77 (d, J = 8.0, 2H), 7.44 (t, J = 8.0 Hz, 2H), 7.21 (t, J = 8.0 Hz, 1H), 7.10 (d, J = 8.0 Hz, 2H), 7.07 (d, J = 8.0 Hz, 2H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 160.84, 158.77, 155.66, 148.19, 147.75, 134.80, 134.11, 130.29, 130.22, 129.16, 129.01, 126.30, 124.22, 122.26, 119.45, 118.22; HRMS (ESI) calcd for C₂₀H₁₅N₃O₄ [M+H]⁺ 362.1141; found 362.1140.

(E)-N'-(4-phenoxybenzylidene)benzo[d][1,3]dioxole-5-carbohydrazide (JK-206): a white solid; Yield: 96%; IR (ATR) cm⁻¹ 3299, 1646, 1605, 1586, 1530, 1483; ¹H NMR (400 MHz, DMSO-*d*₆) δ 11.66 (s, 1H), 8.42 (s, 1H), 7.73 (d, J = 8.0 Hz, 2H), 7.53 (d, J = 8.0 Hz, 1H), 7.44 (m, 3H), 7.20 (t, J = 8.0 Hz, 1H), 7.07 (m, 5H), 6.13 (s, 2H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 162.07, 158.45, 155.76, 150.12, 147.40, 146.75, 130.20, 129.38, 128.89, 127.21, 124.14, 122.76, 119.38, 118.25, 108.03, 107.56, 101.81; HRMS (ESI) calcd for C₂₁H₁₆N₂O₄ [M+H]⁺ 361.1188; found 361.1193.

(E)-N'-(4-phenoxybenzylidene)-[1,1'-biphenyl]-4-carbohydrazide (JK-207): a white solid; Yield: 88%; IR (ATR) cm⁻¹ 3208, 3173, 3035, 1647, 1604, 1585, 1550, 1482; ¹H NMR (400 MHz, DMSO-*d*₆) δ 11.88 (s, 1H), 8.48 (s, 1H), 8.03 (d, J = 8.0 Hz, 2H), 7.84 (d, J = 8.0 Hz, 2H), 7.76 (d, J = 8.0 Hz, 4H), 7.51 (t, J = 8.0 Hz, 2H), 7.44 (m, 3H), 7.21 (t, J = 8.0 Hz, 1H), 7.08 (m, 4H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 162.62, 158.54, 155.73, 147.14, 143.23, 139.06, 132.18, 130.21, 129.33, 129.04, 128.98, 128.29, 128.15, 126.90, 126.66, 124.17, 119.41, 118.24; HRMS (ESI) calcd for C₂₆H₂₀N₂O₂ [M+H]⁺ 393.1603; found 393.1615.

(E)-N'-(4-phenoxybenzylidene)furan-2-carbohydrazide (JK-208): a white solid; Yield: 76%; IR (ATR) cm⁻¹ 3164, 3016, 2998, 1641, 1585, 1542, 1503, 1474; ¹H NMR (400 MHz, DMSO-*d*₆) δ 11.80 (s, 1H), 8.43 (s, 1H), 7.94 (s, 1H), 7.72 (d, J = 8.0 Hz, 2H), 7.43 (t, J = 8.0 Hz, 2H), 7.29 (s, 1H),

7.20 (t, $J = 8.0$ Hz, 1H), 7.09 (d, $J = 8.0$ Hz, 2H), 7.05 (d, $J = 8.0$ Hz, 2H), 6.70 (s, 1H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 158.54, 155.73, 154.11, 147.21, 146.66, 145.77, 130.20, 129.22, 128.97, 124.15, 119.39, 118.25, 114.82, 112.06; HRMS (ESI) calcd for $\text{C}_{18}\text{H}_{14}\text{N}_2\text{O}_3$ $[\text{M}+\text{H}]^+$ 307.1083; found 307.1087.

(E)-N'-(4-phenoxybenzylidene)isonicotinohydrazide (JK-209): a pale yellow solid; Yield: 80%; IR (ATR) cm^{-1} 3236, 3065, 1653, 1587, 1551, 1487; ^1H NMR (400 MHz, DMSO- d_6) δ 12.03 (s, 1H), 8.79 (d, $J = 4.0$ Hz, 2H), 8.45 (s, 1H), 7.82 (d, $J = 4.0$ Hz, 2H), 7.77 (d, $J = 8.0$ Hz, 2H), 7.44 (t, $J = 8.0$ Hz, 2H), 7.21 (t, $J = 8.0$ Hz, 1H), 7.08 (m, 4H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 161.54, 158.86, 155.67, 150.34, 148.44, 140.53, 130.26, 129.23, 128.97, 124.28, 121.54, 119.51, 118.24; HRMS (ESI) calcd for $\text{C}_{19}\text{H}_{15}\text{N}_3\text{O}_2$ $[\text{M}+\text{Na}]^+$ 340.1062; found 340.1056.

(E)-N'-(4-phenoxybenzylidene)imidazo[1,2-a]pyridine-7-carbohydrazide (JK-210): an off-white solid; Yield: 82%; IR (ATR) cm^{-1} 3201, 3043, 1670, 1630, 1586, 1549, 1504, 1485; ^1H NMR (400 MHz, DMSO- d_6) δ 11.98 (s, 1H), 8.67 (d, $J = 8.0$ Hz, 1H), 8.47 (s, 1H), 8.27 (s, 1H), 8.11 (s, 1H), 7.77 (m, 3H), 7.44 (t, $J = 8.0$ Hz, 2H), 7.38 (d, $J = 8.0$ Hz, 1H), 7.20 (t, $J = 8.0$ Hz, 1H), 7.08 (m, 4H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 161.41, 158.63, 155.70, 147.49, 143.37, 135.25, 130.20, 129.19, 129.05, 128.61, 126.93, 124.17, 119.42, 118.23, 116.35, 114.47, 110.51; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{16}\text{N}_4\text{O}_2$ $[\text{M}+\text{H}]^+$ 357.1352; found 357.1359.

(E)-N'-(4-phenoxybenzylidene)-2-phenylacetohydrazide (JK-211): an off-white solid; Yield: 84%; IR (ATR) cm^{-1} 3210, 3055, 1667, 1586, 1555, 1504, 1486; ^1H NMR (400 MHz, DMSO- d_6) δ 11.56 (s, 0.4H), 11.35 (s, 0.6H), 8.20 (s, 0.4H), 7.98 (s, 0.6H), 7.70 (m, 2H), 7.31 (m, 8H), 7.05 (m, 4H), 3.97 (s, 1.2H), 3.53 (s, 0.8H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 172.15, 166.40, 158.43, 158.16, 155.85, 155.73, 145.89, 142.21, 135.74, 135.70, 130.17, 129.36, 129.04, 128.87, 128.57, 128.29, 128.20, 126.55, 126.33, 124.12, 124.05, 119.36, 119.23, 118.38, 118.17, 41.22; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{18}\text{N}_2\text{O}_2$ $[\text{M}+\text{H}]^+$ 331.1447; found 331.1453.

(E)-2-(4-fluorophenoxy)-N'-(4-phenoxybenzylidene)acetohydrazide (JK-212): a white solid; Yield: 91%; IR (ATR) cm^{-1} 3213, 3071, 1691, 1607, 1587, 1504, 1488; ^1H NMR (400 MHz, DMSO- d_6) δ 11.54 (s, 1H), 8.32 (s, 0.4H), 7.99 (s, 0.6H), 7.71 (m, 2H), 7.43 (m, 2H), 7.10 (m, 9H), 5.11 (s, 1.2H), 4.64 (s, 0.8H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 168.83, 164.00, 158.63, 158.29, 158.04, 157.73, 155.84, 155.68, 155.38, 154.51, 154.06, 147.32, 143.15, 130.20, 130.18, 129.02, 128.80,

124.18, 124.06, 119.42, 119.19, 118.32, 118.18, 116.10, 116.02, 115.98, 115.81, 115.75, 115.73, 115.57, 67.03, 65.22; HRMS (ESI) calcd for $C_{21}H_{17}FN_2O_3$ $[M+H]^+$ 365.1301; found 365.1294.

(E)-2-((1H-benzo[d]imidazol-2-yl)thio)-N'-(4-phenoxybenzylidene)acetohydrazide (JK-213): a white solid; Yield: 77%; IR (ATR) cm^{-1} 3206, 3150, 3051, 1667, 1587, 1485; 1H NMR (400 MHz, DMSO- d_6) δ 12.61 (s, 1H), 11.61 (s, 1H), 8.19 (s, 0.4H), 8.01 (s, 0.6H), 7.69 (m, 2H), 7.43 (t, $J = 8.0$ Hz, 4H), 7.20 (t, $J = 8.0$ Hz, 1H), 7.08 (m, 6H), 4.58 (s, 1.2H), 4.18 (s, 0.8H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 168.98, 163.79, 158.59, 158.28, 155.80, 155.69, 149.81, 149.60, 146.37, 142.94, 130.20, 130.18, 129.05, 129.01, 128.74, 124.17, 124.08, 121.38, 119.42, 119.24, 118.30, 118.16, 34.25, 33.60; HRMS (ESI) calcd for $C_{22}H_{18}N_4O_2S$ $[M+H]^+$ 403.1229; found 403.1235.

(E)-1-benzyl-N'-(4-phenoxybenzylidene)pyrrolidine-3-carbohydrazide (JK-214): a white solid; Yield: 86%; IR (ATR) cm^{-1} 3168, 3015, 1668, 1648, 1586, 1561, 1487; 1H NMR (400 MHz, DMSO- d_6) δ 11.28 (s, 0.4H), 11.23 (s, 0.6H), 8.13 (s, 0.4H), 7.94 (s, 0.6H), 7.65 (m, 2H), 7.42 (t, $J = 8.0$ Hz, 2H), 7.31 (m, 4H), 7.21 (m, 2H), 7.00-7.08 (m, 4H), 3.64 (m, 3H), 2.87 (m, 1H), 2.42-2.68 (m, 3H), 1.99 (m, 2H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 175.21, 170.00, 158.34, 158.01, 155.90, 155.75, 145.41, 141.78, 139.10, 130.18, 130.15, 129.45, 129.31, 128.79, 128.51, 128.46, 128.44, 128.13, 128.10, 126.81, 126.75, 124.11, 124.00, 119.35, 119.15, 118.41, 118.19, 59.25, 59.16, 56.89, 56.36, 53.54, 41.47, 27.45, 26.96; HRMS (ESI) calcd for $C_{25}H_{25}N_3O_2$ $[M+Na]^+$ 422.1844; found 422.1844.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)benzenesulfonohydrazide (JK-301): a yellow solid; Yield: 78%; IR (ATR) cm^{-1} 3229, 1588, 1566, 1504, 1459; 1H NMR (400 MHz, DMSO- d_6) δ 11.92 (s, 1H), 7.97 (s, 1H), 7.83-7.92 (m, 4H), 7.61-7.68 (m, 6H), 7.02 (d, $J = 12.0$ Hz, 1H), 6.08 (s, 2H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 155.39, 152.02, 148.34, 147.94, 147.34, 138.85, 137.93, 133.22, 132.24, 129.36, 127.12, 120.81, 120.25, 117.66, 108.46, 106.61, 101.38; HRMS (ESI) calcd for $C_{19}H_{15}N_3O_4S$ $[M+Na]^+$ 404.0681; found 404.0691.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-4-hydroxybenzohydrazide (JK-302): a white solid; Yield: 95%; IR (ATR) cm^{-1} 3066, 1656, 1605, 1584, 1542, 1504; 1H NMR (400 MHz, DMSO- d_6) δ 11.87 (s, 1H), 10.18 (s, 1H), 8.52 (s, 1H), 7.84-7.90 (m, 5H), 7.67 (s, 2H), 7.04 (d, $J = 8.0$ Hz, 1H), 6.89 (d, $J = 8.0$ Hz, 2H), 6.10 (s, 2H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 160.85, 155.37, 153.14, 148.31, 147.97, 147.30, 137.80, 132.47, 129.82, 123.61, 120.79, 119.98, 117.93, 115.08, 108.49, 106.63, 101.39; HRMS (ESI) calcd for $C_{20}H_{15}N_3O_4$ $[M+Na]^+$ 384.0960; found 384.0953.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-4-methoxybenzohydrazide (JK-303): a white solid; Yield: 98%; IR (ATR) cm^{-1} 3327, 3204, 1645, 1603, 1543, 1505; ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ 11.94 (s, 1H), 8.54 (s, 1H), 7.87-7.95 (m, 5H), 7.68 (s, 2H), 7.04-7.10 (m, 3H), 6.10 (s, 2H), 3.85 (s, 3H); ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$) δ 162.16, 155.38, 153.05, 148.32, 147.97, 147.61, 137.85, 132.45, 129.67, 125.17, 120.80, 120.05, 117.97, 113.80, 108.50, 106.62, 101.39, 55.46; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{17}\text{N}_3\text{O}_4$ $[\text{M}+\text{Na}]^+$ 398.1117; found 398.1110.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-4-fluorobenzohydrazide (JK-304): a white solid; Yield: 86%; IR (ATR) cm^{-1} 3265, 3070, 1648, 1599, 1547, 1501; ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ 12.09 (s, 1H), 8.54 (s, 1H), 7.89-8.03 (m, 5H), 7.67 (m, 2H), 7.40 (t, $J = 8.0$ Hz, 2H), 7.04 (d, $J = 8.0$ Hz, 1H), 6.10 (s, 2H); ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$) δ 164.25 (d, $J = 247.0$ Hz), 162.25, 155.42, 152.88, 148.33, 147.97, 139.36, 137.85, 132.40, 130.47 (d, $J = 8.0$ Hz), 129.64, 120.80, 120.20, 118.07, 115.56 (d, $J = 22.0$ Hz), 108.48, 106.62, 101.39; HRMS (ESI) calcd for $\text{C}_{20}\text{H}_{14}\text{FN}_3\text{O}_3$ $[\text{M}+\text{Na}]^+$ 386.0917; found 386.0913.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-3-nitrobenzohydrazide (JK-305): a pale yellow solid; Yield: 93%; IR (ATR) cm^{-1} 3193, 3051, 1651, 1530, 1501; ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ 12.36 (s, 1H), 8.79 (s, 1H), 8.57 (s, 1H), 8.46 (d, $J = 8.0$ Hz, 1H), 8.40 (d, $J = 8.0$ Hz, 1H), 7.84-7.93 (m, 4H), 7.68 (m, 2H), 7.04 (d, $J = 8.0$ Hz, 1H), 6.10 (s, 2H); ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$) δ 161.17, 155.46, 152.66, 149.29, 148.36, 147.97, 147.79, 137.91, 134.50, 134.21, 132.35, 130.38, 126.53, 122.39, 120.80, 120.37, 118.21, 108.49, 106.61, 101.40; HRMS (ESI) calcd for $\text{C}_{20}\text{H}_{14}\text{N}_4\text{O}_5$ $[\text{M}+\text{H}]^+$ 391.1042; found 391.1050.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)benzo[d][1,3]dioxole-5-carbohydrazide (JK-306): an off-white solid; Yield: 96%; IR (ATR) cm^{-1} 3506, 3189, 1649, 1603, 1557, 1501, 1487; ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ 11.91 (s, 1H), 8.52 (s, 1H), 7.87-7.92 (m, 3H), 7.68 (m, 2H), 7.56 (d, $J = 8.0$ Hz, 1H), 7.48 (s, 1H), 7.08 (d, $J = 8.0$ Hz, 1H), 7.05 (d, $J = 8.0$ Hz, 1H), 6.15 (s, 2H), 6.10 (s, 2H); ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$) δ 162.36, 155.40, 152.98, 150.35, 148.33, 147.97, 147.83, 147.46, 137.86, 132.43, 126.91, 122.99, 120.80, 120.10, 118.00, 108.50, 108.11, 107.67, 106.62, 101.88, 101.39; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{15}\text{N}_3\text{O}_5$ $[\text{M}+\text{H}]^+$ 390.1090; found

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(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-[1,1'-biphenyl]-4-carbohydrazide (JK-307): a white solid; Yield: 93%; IR (ATR) cm^{-1} 3221, 3051, 1651, 1541, 1501; ^1H NMR (400

MHz, DMSO-*d*₆) δ 12.13 (s, 1H), 8.58 (s, 1H), 8.06 (d, *J* = 8.0 Hz, 2H), 7.85-7.92 (m, 5H), 7.77 (d, *J* = 8.0 Hz, 2H), 7.69 (s, 2H), 7.51 (t, *J* = 8.0 Hz, 2H), 7.43 (t, *J* = 8.0 Hz, 1H), 7.05 (d, *J* = 8.0 Hz, 1H), 6.10 (s, 2H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 162.95, 155.42, 152.96, 148.33, 148.23, 147.98, 143.48, 139.01, 137.86, 132.42, 131.89, 129.06, 128.42, 128.21, 126.93, 126.74, 120.81, 120.16, 118.07, 108.50, 106.63, 101.39; HRMS (ESI) calcd for C₂₆H₁₉N₃O₃ [M+H]⁺ 422.1505; found 422.1521.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)furan-2-carbohydrazide (JK-308): a white solid; Yield: 90%; IR (ATR) cm⁻¹ 3216, 3052, 1651, 1585, 1563, 1547, 1504; ¹H NMR (400 MHz, DMSO-*d*₆) δ 12.09 (s, 1H), 8.54 (s, 1H), 7.86-7.99 (m, 4H), 7.68 (s, 2H), 7.35 (s, 1H), 7.05 (d, *J* = 8.0 Hz, 1H), 6.74 (s, 1H), 6.10 (s, 2H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 155.44, 154.28, 152.85, 148.34, 148.25, 147.98, 146.37, 146.13, 137.90, 132.41, 120.83, 120.18, 118.14, 115.44, 112.19, 108.51, 106.64, 101.40; HRMS (ESI) calcd for C₁₈H₁₃N₃O₄ [M+H]⁺ 336.0984; found 336.0986.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)isonicotinohydrazide (JK-309): a white solid; Yield: 86%; IR (ATR) cm⁻¹ 3235, 3074, 1654, 1545, 1500, 1453; ¹H NMR (400 MHz, DMSO-*d*₆) δ 12.28 (s, 1H), 8.82 (d, *J* = 4.0 Hz, 2H), 8.55 (s, 1H), 7.82-7.93 (m, 5H), 7.68 (m, 2H), 7.05 (d, *J* = 8.0 Hz, 1H), 6.10 (s, 2H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 161.88, 155.50, 152.62, 150.40, 149.43, 148.36, 147.98, 140.26, 137.95, 132.35, 121.56, 120.83, 120.44, 118.25, 108.51, 106.63, 101.40; HRMS (ESI) calcd for C₁₉H₁₄N₄O₃ [M+H]⁺ 347.1144; found 347.1156.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)imidazo[1,2-*a*]pyridine-7-carbohydrazide (JK-310): an off-white solid; Yield: 93%; IR (ATR) cm⁻¹ 2964, 1655, 1609, 1535, 1518, 1503; ¹H NMR (400 MHz, DMSO-*d*₆) δ 12.22 (s, 1H), 8.69 (d, *J* = 8.0 Hz, 1H), 8.57 (s, 1H), 8.31 (s, 1H), 8.13 (s, 1H), 7.91 (m, 3H), 7.79 (s, 1H), 7.68 (m, 2H), 7.40 (d, *J* = 4.0 Hz, 1H), 7.04 (d, *J* = 8.0 Hz, 1H), 6.10 (s, 2H); ¹³C NMR (100 MHz, DMSO-*d*₆) δ 161.74, 155.44, 152.83, 148.56, 148.34, 147.97, 143.34, 137.85, 135.39, 132.39, 128.26, 127.02, 120.81, 120.22, 118.12, 116.65, 114.57, 110.48, 108.48, 106.63, 101.39; HRMS (ESI) calcd for C₂₁H₁₅N₅O₃ [M+H]⁺ 386.1253; found 386.1258.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-2-phenylacetohydrazide (JK-311): a white solid; Yield: 84%; IR (ATR) cm⁻¹ 3202, 3052, 1665, 1542, 1500; ¹H NMR (400 MHz, DMSO-*d*₆) δ 11.85 (s, 0.3H), 11.65 (s, 0.7H), 8.30 (s, 0.3H), 8.09 (s, 0.7H), 7.79-7.89 (m, 3H), 7.66 (m, 2H),

7.23-7.33 (m, 5H), 7.03 (d, $J = 8.0$ Hz, 1H), 6.10 (s, 2H), 4.03 (s, 1.4H), 3.59 (s, 0.6H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 172.55, 166.84, 155.36, 152.76, 148.31, 147.95, 146.99, 143.50, 137.82, 135.54, 135.41, 132.40, 129.42, 129.10, 128.34, 128.23, 126.64, 126.42, 120.79, 120.10, 119.90, 117.99, 117.69, 108.46, 106.62, 101.38, 41.22; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{17}\text{N}_3\text{O}_3$ $[\text{M}+\text{H}]^+$ 360.1348; found 360.1358.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-2-(4-

fluorophenoxy)acetohydrazide (JK-312): a white solid; Yield: 89%; IR (ATR) cm^{-1} 3069, 1701, 1570, 1501; ^1H NMR (400 MHz, DMSO- d_6) δ 11.83 (s, 1H), 8.43 (s, 0.3H), 8.08 (s, 0.7H), 7.82-7.91 (m, 3H), 7.66 (s, 2H), 6.98-7.19 (m, 5H), 6.10 (s, 2H), 5.18 (s, 1.3H), 4.70 (s, 0.7H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 169.23, 164.52, 155.43, 155.34, 154.48, 154.01, 152.70, 152.48, 148.40, 148.33, 147.96, 144.39, 137.86, 137.75, 132.35, 120.81, 120.27, 120.07, 118.12, 117.91, 116.15, 116.07, 116.00, 115.87, 115.81, 115.78, 115.58, 108.47, 106.62, 101.39, 67.03, 65.22; HRMS (ESI) calcd for $\text{C}_{21}\text{H}_{16}\text{FN}_3\text{O}_4$ $[\text{M}+\text{Na}]^+$ 416.1023; found 416.1014.

(E)-2-((1H-benzo[d]imidazol-2-yl)thio)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-

yl)methylene)acetohydrazide (JK-313): an off-white solid; Yield: 84%; IR (ATR) cm^{-1} 3043, 2958, 1676, 1600; ^1H NMR (400 MHz, DMSO- d_6) δ 12.62 (s, 1H), 8.00-8.09 (m, 2H), 7.66-7.80 (m, 2H), 7.54 (m, 3H), 7.37 (s, 1H), 7.04-7.18 (m, 4H), 6.06 (m, 2H), 4.68 (s, 1.5H), 4.27 (s, 0.5H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 169.59, 164.93, 155.36, 154.90, 151.47, 151.32, 149.65, 149.08, 148.89, 148.30, 148.23, 143.54, 139.40, 138.76, 136.10, 135.49, 131.43, 124.73, 121.65, 121.46, 121.20, 121.09, 117.33, 117.03, 110.39, 110.31, 108.70, 107.28, 106.57, 101.64, 101.53, 34.59, 33.28; HRMS (ESI) calcd for $\text{C}_{22}\text{H}_{17}\text{N}_5\text{O}_3\text{S}$ $[\text{M}+\text{H}]^+$ 432.1130; found 432.1138.

(E)-N'-((6-(benzo[d][1,3]dioxol-5-yl)pyridin-2-yl)methylene)-1-benzylpyrrolidine-3-

carbohydrazide (JK-314): a white solid; Yield: 77%; IR (ATR) cm^{-1} 3437, 3152, 1670, 1555, 1504; ^1H NMR (400 MHz, DMSO- d_6) δ 11.56 (s, 0.4H), 11.53 (s, 0.6H), 8.23 (s, 0.4H), 8.04 (s, 0.6H), 7.87 (s, 2H), 7.77 (m, 1H), 7.64 (s, 2H), 7.24-7.31 (m, 5H), 7.03 (d, $J = 8.0$ Hz, 1H), 6.09 (s, 2H), 3.71 (m, 1H), 3.59 (m, 2H), 2.91 (m, 1H), 2.62 (m, 2H), 2.44 (m, 1H), 2.04 (m, 2H); ^{13}C NMR (100 MHz, DMSO- d_6) δ 175.64, 170.44, 155.32, 152.86, 148.29, 147.94, 146.52, 143.14, 139.15, 137.77, 132.41, 128.50, 128.46, 128.11, 126.80, 126.75, 120.78, 120.03, 119.81, 117.93, 117.50, 108.46, 106.61, 101.37, 59.26, 59.14, 56.81, 56.32, 53.52, 41.59, 27.41, 27.05; HRMS (ESI) calcd for $\text{C}_{25}\text{H}_{24}\text{N}_4\text{O}_3$ $[\text{M}+\text{H}]^+$ 429.1927; found 429.1931.

Table S1. A list of DEGs common and uncommon to JK-206 treated (versus DMSO treated) and JK-312 treated (versus DMSO treated) GC cells.

Category	JK-206 treated versus DMSO treated GC cell lines			JK-312 treated versus DMSO treated GC cell lines		
	Symbol	FC	P	Symbol	FC	P
Common DEGs in JK-206 and -312 treated GC cell lines	<i>ALKAL2</i>	1.17	0.04	<i>ALKAL2</i>	1.16	0.01
	<i>ALYREF</i>	0.57	0.02	<i>ALYREF</i>	0.63	<0.05
	<i>B9D2</i>	0.78	0.01	<i>B9D2</i>	0.80	0.01
	<i>C5orf49</i>	1.25	0.02	<i>C5orf49</i>	1.15	0.03
	<i>CAB39L</i>	1.42	0.02	<i>CAB39L</i>	1.40	<0.05
	<i>CACNA1C-IT3</i>	1.30	0.04	<i>CACNA1C-IT3</i>	1.24	0.01
	<i>CACTIN</i>	0.93	0.04	<i>CACTIN</i>	0.94	0.04
	<i>CCL22</i>	1.33	0.03	<i>CCL22</i>	1.20	0.01
	<i>CCT6A</i>	0.70	0.02	<i>CCT6A</i>	0.77	<0.05
	<i>CFAP20</i>	0.73	0.01	<i>CFAP20</i>	0.82	0.03
	<i>DEFB126</i>	0.87	0.04	<i>DEFB126</i>	0.75	<0.01
	<i>DIRC1</i>	0.66	<0.01	<i>DIRC1</i>	0.82	0.03
	<i>DNAI3</i>	1.20	<0.05	<i>DNAI3</i>	1.25	0.02
	<i>DYTN</i>	1.19	0.04	<i>DYTN</i>	1.34	0.02
	<i>FAM66C</i>	0.87	0.04	<i>FAM66C</i>	1.24	<0.05
	<i>FAM83D</i>	0.64	0.02	<i>FAM83D</i>	0.68	0.03
	<i>FOXMI</i>	0.70	0.02	<i>FOXMI</i>	0.75	0.04
	<i>FRZB</i>	0.86	0.04	<i>FRZB</i>	0.81	0.03
	<i>GDI2</i>	0.88	<0.01	<i>GDI2</i>	0.88	0.03
	<i>GGA2</i>	0.87	0.03	<i>GGA2</i>	0.84	0.01
	<i>GPR65</i>	1.28	0.03	<i>GPR65</i>	1.24	0.02
	<i>GSTM5</i>	0.78	0.03	<i>GSTM5</i>	0.79	<0.05
	<i>H1-5</i>	0.46	0.03	<i>H1-5</i>	0.48	0.03
	<i>H2AFZ</i>	0.74	0.01	<i>H2AFZ</i>	0.82	0.04
	<i>H4C11</i>	0.74	<0.01	<i>H4C11</i>	0.83	0.03
	<i>HCG24</i>	1.24	0.01	<i>HCG24</i>	1.13	0.04
	<i>HMGCS2</i>	1.16	0.02	<i>HMGCS2</i>	1.11	<0.05
	<i>HMGNI30</i>	0.71	0.03	<i>HMGNI30</i>	0.81	<0.01
	<i>HNRNPL</i>	0.77	0.02	<i>HNRNPL</i>	0.80	0.03
	<i>KPTN</i>	0.89	0.02	<i>KPTN</i>	0.84	<0.01
	<i>LIAS</i>	0.80	0.01	<i>LIAS</i>	0.85	<0.05
	<i>LINC00482</i>	1.20	0.01	<i>LINC00482</i>	1.22	0.01
	<i>LINC00527</i>	1.33	<0.01	<i>LINC00527</i>	1.37	0.01
	<i>LINC00534</i>	0.76	0.02	<i>LINC00534</i>	0.74	0.02
	<i>LINC00615</i>	0.84	0.03	<i>LINC00615</i>	0.73	0.04

	<i>LINC00656</i>	0.76	<0.01	<i>LINC00656</i>	0.82	<0.01
	<i>LINC00693</i>	1.16	<0.01	<i>LINC00693</i>	1.18	0.02
	<i>LINC01488</i>	0.70	0.01	<i>LINC01488</i>	0.66	0.03
	<i>LINC01500</i>	1.28	0.04	<i>LINC01500</i>	1.21	0.02
	<i>LNPI</i>	1.35	0.03	<i>LNPI</i>	1.25	0.02
	<i>LOC100128908</i>	1.46	0.01	<i>LOC100128908</i>	1.29	0.03
	<i>LOC100507291</i>	1.41	<0.05	<i>LOC100507291</i>	1.37	0.04
	<i>LOC101927355</i>	0.82	<0.05	<i>LOC101927355</i>	0.78	0.03
	<i>LOC101928093</i>	1.16	0.04	<i>LOC101928093</i>	1.21	<0.01
	<i>LOC101928596</i>	0.79	0.04	<i>LOC101928596</i>	0.77	0.01
	<i>LOC101929646</i>	1.17	0.02	<i>LOC101929646</i>	1.26	0.01
	<i>LOC102467222</i>	1.43	0.03	<i>LOC102467222</i>	1.45	<0.05
	<i>LOC102723530</i>	1.19	<0.01	<i>LOC102723530</i>	1.36	<0.01
	<i>LOC102724152</i>	1.40	0.01	<i>LOC102724152</i>	1.14	0.03
	<i>LOC102725168</i>	0.78	0.02	<i>LOC102725168</i>	0.81	0.02
	<i>LOC102725254</i>	1.19	<0.05	<i>LOC102725254</i>	1.34	<0.01
	<i>LOC105369981</i>	0.91	0.04	<i>LOC105369981</i>	0.89	0.04
	<i>LOC105370404</i>	1.16	<0.05	<i>LOC105370404</i>	1.21	0.01
	<i>LOC105370954</i>	0.74	<0.01	<i>LOC105370954</i>	0.79	<0.01
	<i>LOC105372075</i>	1.22	0.03	<i>LOC105372075</i>	1.22	0.04
	<i>LOC105373256</i>	0.78	0.01	<i>LOC105373256</i>	0.76	<0.01
	<i>LOC105373496</i>	0.81	0.03	<i>LOC105373496</i>	0.89	0.02
	<i>LOC105374424</i>	1.35	0.01	<i>LOC105374424</i>	1.28	0.01
	<i>LOC105374689</i>	1.35	0.02	<i>LOC105374689</i>	1.22	0.03
	<i>LOC105375052</i>	1.29	<0.01	<i>LOC105375052</i>	1.32	0.01
	<i>LOC105375310</i>	1.17	0.02	<i>LOC105375310</i>	1.38	<0.01
	<i>LOC105376150</i>	1.43	0.04	<i>LOC105376150</i>	1.42	0.04
	<i>LOC105376203</i>	1.14	0.02	<i>LOC105376203</i>	1.11	0.02
	<i>LOC105376647</i>	0.74	<0.05	<i>LOC105376647</i>	0.72	0.02
	<i>LOC105377918</i>	1.11	<0.01	<i>LOC105377918</i>	1.11	<0.01
	<i>LOC105378065</i>	0.91	0.04	<i>LOC105378065</i>	0.92	0.02
	<i>LOC105378152</i>	1.47	<0.01	<i>LOC105378152</i>	1.26	0.01
	<i>LOC105378459</i>	0.83	0.03	<i>LOC105378459</i>	0.84	0.03
	<i>LOC105378966</i>	1.17	0.02	<i>LOC105378966</i>	1.20	0.04
	<i>LOC105447648</i>	0.89	<0.05	<i>LOC105447648</i>	0.65	0.01
	<i>LOC106699570</i>	1.42	0.02	<i>LOC106699570</i>	1.26	0.01
	<i>LOC730179</i>	0.78	0.02	<i>LOC730179</i>	0.61	<0.01
	<i>LRTM2</i>	1.13	<0.05	<i>LRTM2</i>	1.14	0.01
	<i>MEGF6</i>	1.30	0.01	<i>MEGF6</i>	1.22	0.03

	<i>MELK</i>	0.80	<0.01	<i>MELK</i>	0.86	0.01
	<i>MIR19B2</i>	0.80	0.04	<i>MIR19B2</i>	0.80	<0.05
	<i>MIR325</i>	1.47	0.02	<i>MIR325</i>	1.47	0.03
	<i>MIR4269</i>	1.45	<0.01	<i>MIR4269</i>	1.75	0.02
	<i>MIR587</i>	1.25	0.02	<i>MIR587</i>	1.29	0.03
	<i>MIR876</i>	1.12	<0.05	<i>MIR876</i>	1.10	<0.05
	<i>MIR890</i>	1.55	<0.01	<i>MIR890</i>	1.17	0.03
	<i>MND1</i>	0.71	0.04	<i>MND1</i>	0.82	0.03
	<i>MRPS28</i>	0.67	0.01	<i>MRPS28</i>	0.77	0.02
	<i>MUC22</i>	0.73	0.01	<i>MUC22</i>	0.79	0.02
	<i>MYOCD</i>	0.80	0.03	<i>MYOCD</i>	0.86	0.04
	<i>OACYLP</i>	1.06	0.03	<i>OACYLP</i>	1.27	<0.01
	<i>OR10C1</i>	0.78	0.01	<i>OR10C1</i>	0.73	<0.01
	<i>OR1F1</i>	0.57	<0.01	<i>OR1F1</i>	0.70	0.01
	<i>OR4K13</i>	1.34	0.02	<i>OR4K13</i>	1.27	0.01
	<i>OR51A2</i>	0.79	0.04	<i>OR51A2</i>	0.70	0.03
	<i>ORC1</i>	0.63	0.01	<i>ORC1</i>	0.74	0.03
	<i>ORM1</i>	0.72	0.03	<i>ORM1</i>	0.77	0.04
	<i>P2RY4</i>	1.21	<0.05	<i>P2RY4</i>	1.27	0.02
	<i>PCDH10</i>	1.31	0.02	<i>PCDH10</i>	1.20	0.04
	<i>PDE3A</i>	0.87	<0.01	<i>PDE3A</i>	0.83	0.01
	<i>PFKFB1</i>	1.24	0.02	<i>PFKFB1</i>	1.21	0.04
	<i>PLA1A</i>	1.20	0.02	<i>PLA1A</i>	1.22	0.02
	<i>POLR3E</i>	0.84	<0.01	<i>POLR3E</i>	0.89	0.04
	<i>PP2D1</i>	1.18	0.02	<i>PP2D1</i>	1.33	0.02
	<i>PTPMT1</i>	0.79	0.01	<i>PTPMT1</i>	0.86	0.03
	<i>PTPN23</i>	0.86	0.02	<i>PTPN23</i>	0.79	0.02
	<i>RGS7BP</i>	1.24	0.04	<i>RGS7BP</i>	1.06	0.02
	<i>RNASEH1</i>	0.81	0.01	<i>RNASEH1</i>	0.89	0.03
	<i>RPL10A</i>	0.83	0.02	<i>RPL10A</i>	0.84	0.02
	<i>RPL36</i>	0.68	0.02	<i>RPL36</i>	0.75	0.02
	<i>SF3B3</i>	0.79	0.02	<i>SF3B3</i>	0.84	0.04
	<i>SLA2</i>	1.27	0.03	<i>SLA2</i>	1.16	0.02
	<i>SLC6A5</i>	1.24	0.04	<i>SLC6A5</i>	1.26	0.03
	<i>SLFN14</i>	1.20	0.01	<i>SLFN14</i>	1.43	0.03
	<i>SMCO1</i>	1.22	<0.01	<i>SMCO1</i>	1.28	0.02
	<i>SP8</i>	1.33	0.04	<i>SP8</i>	1.35	<0.05
	<i>SPANXN3</i>	1.24	0.01	<i>SPANXN3</i>	1.35	0.04
	<i>SRF</i>	0.76	0.04	<i>SRF</i>	0.82	0.04

	<i>SRGAP3-AS3</i>	0.85	0.02	<i>SRGAP3-AS3</i>	0.75	<0.01
	<i>SRRD</i>	0.79	0.02	<i>SRRD</i>	0.83	0.01
	<i>SRXN1</i>	0.79	0.01	<i>SRXN1</i>	0.84	0.03
	<i>ST8SIA6-AS1</i>	1.20	<0.01	<i>ST8SIA6-AS1</i>	1.27	<0.01
	<i>STIMATE-MUSTN1</i>	0.86	0.03	<i>STIMATE-MUSTN1</i>	0.85	0.01
	<i>TARID</i>	0.87	0.04	<i>TARID</i>	0.80	0.03
	<i>TCERG1L-AS1</i>	0.85	<0.05	<i>TCERG1L-AS1</i>	0.85	0.03
	<i>THAP1</i>	0.79	<0.01	<i>THAP1</i>	0.85	0.01
	<i>TMEM218</i>	0.79	<0.05	<i>TMEM218</i>	0.80	0.03
	<i>TP53TG3HP</i>	1.15	0.02	<i>TP53TG3HP</i>	1.28	<0.01
	<i>TPM4</i>	0.90	0.01	<i>TPM4</i>	0.88	0.02
	<i>TRHDE-AS1</i>	1.16	0.01	<i>TRHDE-AS1</i>	1.25	0.01
	<i>TRIM64</i>	1.17	0.03	<i>TRIM64</i>	1.22	0.02
	<i>UBALD1</i>	0.85	0.02	<i>UBALD1</i>	0.75	<0.01
	<i>VWA2</i>	1.27	<0.05	<i>VWA2</i>	1.41	0.01
	<i>ZBTB21</i>	1.08	0.01	<i>ZBTB21</i>	1.07	0.02
	<i>ZC3H12A-DT</i>	1.32	<0.01	<i>ZC3H12A-DT</i>	1.22	<0.01
	<i>ZEB2-AS1</i>	0.91	0.03	<i>ZEB2-AS1</i>	0.82	<0.05
	<i>ZNF660</i>	1.11	<0.01	<i>ZNF660</i>	1.20	0.02
	<i>ZNRD1ASP</i>	1.17	0.01	<i>ZNRD1ASP</i>	1.18	0.03
	<i>ZSWIM2</i>	1.14	0.03	<i>ZSWIM2</i>	1.19	0.03
Uncommon DEGs in JK- 206 or -312 treated GC cell lines	<i>ACTL6B</i>	1.08	0.01	<i>AARD</i>	0.93	0.03
	<i>ADAM18</i>	0.93	0.03	<i>ABCC13</i>	1.14	0.03
	<i>ADAM28</i>	1.12	0.01	<i>ANGPT4</i>	1.24	<0.01
	<i>ADGB</i>	0.95	<0.05	<i>ANHXL</i>	1.14	0.04
	<i>ADPRS</i>	0.86	0.03	<i>ANKRD26P3</i>	1.25	0.03
	<i>ADRA1D</i>	1.19	0.03	<i>ANKRD7</i>	1.16	0.04
	<i>AGAP3</i>	1.12	0.04	<i>AOAH-IT1</i>	0.90	0.02
	<i>AGBL4-IT1</i>	1.25	0.01	<i>ATE1-AS1</i>	1.32	0.01
	<i>AGPS</i>	0.88	<0.05	<i>ATG9B</i>	1.25	0.02
	<i>AIRE</i>	1.17	0.02	<i>AURKA</i>	0.78	0.03
	<i>AK8</i>	1.19	0.01	<i>AVP</i>	1.31	0.04
	<i>AKR1C8</i>	1.20	0.03	<i>BEND2</i>	1.32	<0.01
	<i>ALDH1L1-AS2</i>	0.87	0.01	<i>BEST4</i>	0.68	0.02
	<i>AMMECR1</i>	0.78	<0.01	<i>BHLHE22</i>	1.08	0.04
	<i>ANAPC10</i>	0.81	0.01	<i>BMX</i>	1.09	0.01
	<i>ANKRD34C</i>	1.23	<0.01	<i>BNIP1L</i>	0.86	0.04
	<i>APOF</i>	1.12	0.03	<i>BTK</i>	1.17	0.02
	<i>ARHGDIA</i>	0.76	<0.05	<i>C11orf58</i>	0.89	0.02

	<i>ARMC2-AS1</i>	1.23	0.02	<i>C12orf73</i>	0.93	0.01
	<i>ARMH4</i>	0.81	0.03	<i>C1orf147</i>	1.22	0.02
	<i>ASB11</i>	0.94	0.04	<i>C1orf174</i>	0.83	0.04
	<i>ASB5</i>	1.16	<0.05	<i>C2orf92</i>	1.49	0.03
	<i>ASB9</i>	0.83	0.01	<i>C4orf17</i>	0.80	0.03
	<i>ATP11A-AS1</i>	0.92	0.03	<i>C5orf52</i>	1.68	0.03
	<i>ATP13A5</i>	0.72	0.01	<i>CACNA1C-IT2</i>	1.15	0.03
	<i>ATP2B2</i>	1.10	0.01	<i>CALHM4</i>	1.18	0.03
	<i>B3GNT8</i>	0.83	0.04	<i>CAPN3</i>	1.31	0.04
	<i>BCL9L</i>	1.15	0.04	<i>CAPN7</i>	0.89	0.02
	<i>BEND3P3</i>	1.41	0.03	<i>CCDC12</i>	0.86	<0.01
	<i>BET1</i>	1.29	0.04	<i>CCDC144NL-AS1</i>	0.93	0.04
	<i>BEX1</i>	1.31	0.04	<i>CCDC152</i>	0.88	<0.05
	<i>BIRC5</i>	0.63	0.04	<i>CCR9</i>	1.45	0.02
	<i>BRINP3-DT</i>	1.12	0.03	<i>CD3G</i>	0.87	0.04
	<i>BTN3A2</i>	1.17	0.04	<i>CD5</i>	1.23	0.03
	<i>BUB1</i>	0.82	0.01	<i>CDC14A</i>	0.87	0.03
	<i>C1orf127</i>	1.14	0.01	<i>CDH8</i>	1.24	0.04
	<i>C4orf45</i>	0.83	0.02	<i>CDK2AP2</i>	0.82	0.03
	<i>C5orf58</i>	1.15	0.02	<i>CDY1B</i>	0.88	0.02
	<i>C9orf57</i>	1.12	0.04	<i>CDY2B</i>	0.82	<0.05
	<i>CA6</i>	0.74	0.02	<i>CFAP61</i>	0.81	0.01
	<i>CACNA1F</i>	1.23	<0.05	<i>CHCHD10</i>	0.81	<0.05
	<i>CCNA1</i>	1.09	<0.01	<i>CHRNA3</i>	0.84	0.02
	<i>CCND2</i>	1.20	0.02	<i>CLCNKA</i>	0.80	<0.01
	<i>CCT8</i>	0.79	0.04	<i>CLSTN3</i>	1.14	0.03
	<i>CD248</i>	1.14	0.04	<i>CLUL1</i>	1.26	0.04
	<i>CD300LD</i>	1.28	0.04	<i>CNOT7</i>	0.90	0.04
	<i>CD84</i>	1.24	<0.05	<i>COL25A1-DT</i>	0.86	0.02
	<i>CDH6</i>	0.77	<0.01	<i>COLEC12</i>	1.24	0.03
	<i>CEACAM22P</i>	0.83	0.01	<i>COX4I2</i>	1.13	0.04
	<i>CEACAMP10</i>	1.16	0.01	<i>CRCT1</i>	1.39	<0.05
	<i>CELF3</i>	1.11	0.04	<i>CSMD2</i>	1.11	0.02
	<i>CENPS-CORT</i>	0.75	<0.01	<i>CT55</i>	1.05	0.03
	<i>CFAP298</i>	0.77	<0.01	<i>CT62</i>	1.33	0.01
	<i>CHAC2</i>	0.60	0.04	<i>CTNNA3</i>	1.10	0.03
	<i>CIB3</i>	1.11	<0.05	<i>CTXND1</i>	1.51	0.01
	<i>CLDN14</i>	1.31	0.02	<i>CWF19L1</i>	0.77	<0.05
	<i>CLDN20</i>	0.89	0.04	<i>CXCR2</i>	0.86	0.01

	<i>CLPP</i>	0.77	0.04	<i>D2IS2088E</i>	0.80	<0.05
	<i>CLRN1-AS1</i>	1.17	0.02	<i>DAOA</i>	1.38	<0.05
	<i>CLYBL-AS2</i>	1.09	<0.05	<i>DBH</i>	1.16	0.03
	<i>COL4A2-AS2</i>	1.24	0.04	<i>DCT</i>	0.87	<0.05
	<i>COMMD4</i>	0.70	0.02	<i>DDC-AS1</i>	1.17	0.02
	<i>CPN2</i>	1.27	0.04	<i>DEFB110</i>	1.14	0.01
	<i>CRNN</i>	1.08	0.03	<i>DEFB135</i>	0.87	0.03
	<i>CROCCP3</i>	0.78	<0.01	<i>DIS3L2</i>	1.05	0.04
	<i>CRX</i>	1.17	0.01	<i>DKFZp451B082</i>	1.58	<0.05
	<i>CSPG4P10</i>	1.09	0.02	<i>DKKL1</i>	1.25	0.04
	<i>CTR9</i>	0.88	0.04	<i>DUSP29</i>	1.20	0.04
	<i>CTXN2</i>	1.19	<0.05	<i>DYNLRB2</i>	1.28	0.02
	<i>CUL9</i>	1.12	0.02	<i>EEF2</i>	0.88	0.04
	<i>CUX1</i>	1.14	0.01	<i>EHMT1</i>	1.09	0.04
	<i>CXCL13</i>	1.24	0.01	<i>ELOA3BP</i>	1.10	0.03
	<i>CYLC2</i>	1.24	0.01	<i>EPX</i>	1.23	<0.05
	<i>CYP20A1</i>	0.86	0.02	<i>EPYC</i>	0.85	<0.05
	<i>CYP7A1</i>	0.83	0.04	<i>ERVV-1</i>	1.19	0.02
	<i>DANT2</i>	1.24	0.04	<i>ESM1</i>	0.90	0.03
	<i>DBF4B</i>	0.87	0.01	<i>ESPN</i>	1.26	0.02
	<i>DDX20</i>	0.84	0.02	<i>F2</i>	1.13	0.03
	<i>DEDD</i>	0.89	<0.05	<i>FABP2</i>	1.32	0.03
	<i>DENR</i>	0.83	0.03	<i>FAHD2B</i>	1.72	0.03
	<i>DERL3</i>	1.23	0.03	<i>FAM124B</i>	1.17	0.03
	<i>DHX9</i>	0.77	0.02	<i>FAM167A-AS1</i>	1.06	0.01
	<i>DLGAP1</i>	1.15	0.02	<i>FAM186A</i>	1.16	0.04
	<i>DLX2-DT</i>	0.86	0.02	<i>FAM236A</i>	1.18	0.04
	<i>DNAI4</i>	1.38	0.02	<i>FAR2P3</i>	1.49	0.01
	<i>DNAJB13</i>	1.27	0.04	<i>FBXL21P</i>	1.16	0.04
	<i>DPP9</i>	0.83	0.04	<i>FBXO47</i>	0.85	0.01
	<i>DRC1</i>	1.14	0.03	<i>FCAMR</i>	0.77	<0.05
	<i>DSCAM-IT1</i>	0.81	0.03	<i>FCGR3B</i>	1.44	<0.05
	<i>DSCR10</i>	1.25	0.01	<i>FCN1</i>	1.15	0.01
	<i>EFCAB9</i>	0.88	0.02	<i>FGL2</i>	1.23	<0.05
	<i>EIF1AX</i>	0.74	<0.05	<i>FKBP9P1</i>	0.76	<0.01
	<i>EIF4E1B</i>	1.12	0.01	<i>FLJ41941</i>	0.72	0.02
	<i>ELAVL1</i>	0.77	0.03	<i>FOLH1B</i>	1.09	0.01
	<i>ELMO2P1</i>	1.36	0.02	<i>FOXR1</i>	1.22	0.03
	<i>ELOVL2-AS1</i>	0.76	0.01	<i>FREM2-AS1</i>	1.33	<0.01

	<i>EMC8</i>	0.78	0.01	<i>FXYD1</i>	1.21	0.03
	<i>ENPP3</i>	1.31	<0.05	<i>GARIN4</i>	1.18	0.02
	<i>EOLA1-DT</i>	1.31	0.02	<i>GLRB</i>	0.85	0.03
	<i>ERMN</i>	1.25	0.04	<i>GOLGA6L7</i>	1.70	0.01
	<i>ESPL1</i>	0.81	0.02	<i>GP9</i>	1.25	0.02
	<i>FABP5P3</i>	0.79	0.02	<i>GPR12</i>	0.95	<0.01
	<i>FAM172BP</i>	1.12	0.02	<i>GPR182</i>	1.13	0.04
	<i>FAM90A20P</i>	1.13	0.03	<i>GREM2</i>	1.17	0.03
	<i>FBXL22</i>	1.13	<0.01	<i>GRIFIN</i>	1.19	0.02
	<i>FBXO5</i>	0.66	0.01	<i>GRIK1</i>	0.83	0.02
	<i>FCN2</i>	0.61	0.03	<i>GRIN2C</i>	1.10	<0.05
	<i>FGD3</i>	1.37	0.04	<i>GRM3</i>	1.03	0.01
	<i>FGD5P1</i>	0.81	0.01	<i>GRM8</i>	0.85	0.04
	<i>FLJ13224</i>	0.86	0.02	<i>GSTT4</i>	0.72	<0.01
	<i>FLJ16171</i>	1.20	0.02	<i>GTSE1-DT</i>	1.12	<0.01
	<i>FLJ31183</i>	1.19	0.03	<i>GUCA1C</i>	0.90	0.03
	<i>FOXD4L5</i>	1.24	<0.01	<i>GUCA2B</i>	1.13	<0.05
	<i>FRG1</i>	0.88	0.02	<i>H4C4</i>	0.66	0.02
	<i>FRRS1L</i>	0.88	0.04	<i>HBM</i>	1.13	0.02
	<i>FUT7</i>	1.29	0.01	<i>HCG26</i>	1.18	<0.01
	<i>GABRQ</i>	0.78	0.04	<i>HCG9</i>	1.14	0.02
	<i>GAS2LIP2</i>	1.28	<0.01	<i>HEPN1</i>	1.18	<0.01
	<i>GASK1A</i>	1.21	0.03	<i>HEXD-IT1</i>	0.79	0.04
	<i>GDF7</i>	1.23	0.02	<i>HINT1</i>	0.76	0.01
	<i>GMIP</i>	1.18	0.04	<i>HLA-DQB2</i>	1.09	<0.01
	<i>GOLGA8IP</i>	1.20	0.04	<i>HLA-F-AS1</i>	0.75	0.03
	<i>GPA33</i>	1.21	0.03	<i>HTR1F</i>	1.31	<0.05
	<i>GPATCH4</i>	0.69	0.03	<i>IDO1</i>	0.81	0.04
	<i>GPR158-AS1</i>	0.78	<0.01	<i>IFNA7</i>	1.42	0.02
	<i>GSTA3</i>	1.36	0.02	<i>IFNA8</i>	1.24	0.02
	<i>GTF2F1</i>	0.85	0.03	<i>IGHV1OR15-9</i>	1.33	0.04
	<i>GTF2IRD2B</i>	1.18	0.01	<i>IGHV3-35</i>	1.31	0.03
	<i>H1-2</i>	0.68	0.03	<i>IGLJ2</i>	1.18	<0.05
	<i>H2AC1</i>	1.42	0.04	<i>IGLV7-43</i>	0.67	0.02
	<i>H2AC13</i>	0.53	0.02	<i>IMPG1</i>	0.84	<0.01
	<i>H2AC16</i>	0.74	<0.05	<i>INPP5J</i>	0.80	0.03
	<i>H2AC17</i>	0.52	0.02	<i>ISLR</i>	1.19	<0.01
	<i>H2AC4</i>	0.77	<0.05	<i>ITIH1</i>	0.70	0.02
	<i>H2BC10</i>	0.61	0.04	<i>ITIH2</i>	0.78	0.02

	<i>HIST1H2BK</i>	0.65	0.04	<i>KCNK9</i>	1.31	0.04
	<i>H2BC13</i>	0.60	0.01	<i>KCNMB2</i>	0.80	0.01
	<i>H3C11</i>	0.59	0.02	<i>KLF16</i>	0.83	<0.05
	<i>H3C15</i>	0.61	<0.05	<i>KLHL31</i>	1.41	0.02
	<i>H3C4</i>	0.78	<0.05	<i>KRT32</i>	1.06	0.02
	<i>H3C7</i>	0.63	0.03	<i>KRT40</i>	0.85	0.03
	<i>H4C12</i>	0.73	0.01	<i>KRT79</i>	1.28	0.01
	<i>HASPIN</i>	0.77	0.04	<i>KRT9</i>	1.32	0.02
	<i>HEPACAM2</i>	0.88	0.03	<i>KRTAP11-1</i>	1.12	0.04
	<i>HMCN2</i>	1.10	0.02	<i>KRTAP15-1</i>	0.81	<0.05
	<i>HORMAD2-AS1</i>	0.78	<0.05	<i>KRTAP19-7</i>	1.21	0.04
	<i>HSD11B1</i>	1.06	0.02	<i>KRTAP21-2</i>	0.84	0.01
	<i>HSP90B3P</i>	0.73	0.01	<i>KRTAP4-11</i>	0.63	0.02
	<i>HSPBP1</i>	0.74	0.01	<i>L3MBTL2</i>	0.84	0.03
	<i>HTR5A-AS1</i>	0.85	<0.05	<i>LAGE3</i>	0.83	<0.01
	<i>IGF1</i>	0.91	0.04	<i>LAMA5-AS1</i>	1.20	0.02
	<i>IGFALS</i>	1.11	0.04	<i>LANCL1-AS1</i>	0.77	0.01
	<i>IL36A</i>	0.76	0.03	<i>LARP7</i>	0.90	<0.05
	<i>INTS4P2</i>	0.82	0.02	<i>LCE1A</i>	0.68	0.02
	<i>IRAG1-AS1</i>	1.25	0.01	<i>LCE1B</i>	1.25	<0.01
	<i>KATNBL1P6</i>	0.76	0.02	<i>LCE3A</i>	1.20	0.04
	<i>KCNH6</i>	1.31	0.04	<i>LCE3C</i>	0.74	0.01
	<i>KCTD2</i>	0.90	0.04	<i>LCN9</i>	0.72	0.02
	<i>KIF15</i>	0.77	0.02	<i>LCTL</i>	0.82	0.04
	<i>KIF18A</i>	0.79	0.04	<i>LEMD1-AS1</i>	0.75	0.01
	<i>KIR2DS2</i>	0.62	0.01	<i>LGALS2</i>	1.22	0.04
	<i>KIR2DS3</i>	0.86	0.01	<i>LHFPL7</i>	1.23	<0.01
	<i>KLF17</i>	0.81	0.02	<i>LILRA3</i>	1.14	0.01
	<i>KLHDC8A</i>	1.30	0.04	<i>LIN7A</i>	1.23	0.04
	<i>KNG1</i>	1.29	0.03	<i>LINC00307</i>	0.82	0.01
	<i>KRTAP24-1</i>	0.91	0.04	<i>LINC00400</i>	0.91	0.04
	<i>KRTAP29-1</i>	0.81	0.01	<i>LINC00485</i>	0.78	0.01
	<i>KRTAP4-3</i>	1.39	0.01	<i>LINC00544</i>	0.84	0.03
	<i>KRTAP4-5</i>	0.83	<0.05	<i>LINC00566</i>	1.14	0.04
	<i>LAG3</i>	0.88	0.04	<i>LINC00570</i>	0.87	0.03
	<i>LBP</i>	0.79	0.03	<i>LINC00595</i>	0.80	0.03
	<i>LCE3B</i>	1.19	0.01	<i>LINC00706</i>	0.54	0.03
	<i>LDB2</i>	1.27	0.03	<i>LINC00927</i>	1.09	0.02
	<i>LEO1</i>	0.85	0.02	<i>LINC00933</i>	1.32	0.01

	<i>LINC00276</i>	1.25	0.01	<i>LINC01081</i>	0.87	0.04
	<i>LINC00304</i>	1.46	0.02	<i>LINC01114</i>	1.31	0.01
	<i>LINC00385</i>	0.91	0.02	<i>LINC01151</i>	1.25	<0.05
	<i>LINC00398</i>	1.29	0.01	<i>LINC01251</i>	1.28	0.02
	<i>LINC00502</i>	1.08	0.04	<i>LINC01276</i>	0.89	0.04
	<i>LINC00523</i>	1.15	0.03	<i>LINC01364</i>	1.28	0.03
	<i>LINC00609</i>	0.93	0.03	<i>LINC01423</i>	1.21	0.03
	<i>LINC00905</i>	0.84	0.02	<i>LINC01451</i>	0.94	0.02
	<i>LINC00974</i>	1.25	0.03	<i>LINC01467</i>	0.83	0.04
	<i>LINC01078</i>	0.88	0.04	<i>LINC01475</i>	1.27	<0.05
	<i>LINC01088</i>	1.20	0.03	<i>LINC01496</i>	0.86	0.03
	<i>LINC01115</i>	0.91	0.04	<i>LINC01546</i>	1.67	<0.05
	<i>LINC01237</i>	1.12	0.01	<i>LINC01566</i>	1.35	0.01
	<i>LINC01335</i>	1.12	0.02	<i>LINC01579</i>	1.12	0.03
	<i>LINC01340</i>	1.15	0.01	<i>LINC01618</i>	0.87	0.02
	<i>LINC01493</i>	0.86	0.04	<i>LINC01869</i>	0.94	<0.05
	<i>LINC01517</i>	0.87	0.03	<i>LINC02209</i>	1.26	<0.01
	<i>LINC01816</i>	0.83	0.03	<i>LINC02587</i>	0.84	0.04
	<i>LINC02872</i>	1.22	0.02	<i>LINC02694</i>	1.23	<0.01
	<i>LINC02907</i>	1.15	0.03	<i>LOC100130458</i>	1.19	<0.05
	<i>LIPI</i>	0.84	0.04	<i>LOC100505622</i>	0.87	0.01
	<i>LNPEP</i>	1.18	0.03	<i>LOC100505685</i>	1.13	0.03
	<i>LOC100101148</i>	0.80	0.04	<i>LOC100506725</i>	1.19	0.04
	<i>LOC100128437</i>	1.34	0.01	<i>LOC100506985</i>	1.13	<0.01
	<i>LOC100128573</i>	1.23	0.04	<i>LOC100996637</i>	0.73	0.03
	<i>LOC100129434</i>	1.27	0.04	<i>LOC101060385</i>	0.88	0.02
	<i>LOC100129596</i>	0.86	0.02	<i>LOC101927059</i>	1.27	<0.05
	<i>LOC100130507</i>	0.80	0.03	<i>LOC101927082</i>	1.12	0.03
	<i>LOC100133106</i>	0.84	0.04	<i>LOC101927120</i>	1.25	0.01
	<i>LOC100288570</i>	1.06	0.04	<i>LOC101927153</i>	0.80	0.04
	<i>LOC100506489</i>	1.27	0.01	<i>LOC101927365</i>	0.82	<0.05
	<i>LOC100506928</i>	1.09	0.03	<i>LOC101927412</i>	1.33	0.02
	<i>LOC100507661</i>	0.84	<0.05	<i>LOC101927434</i>	0.79	0.04
	<i>LOC100652871</i>	1.24	<0.01	<i>LOC101927435</i>	0.87	0.02
	<i>LOC100653233</i>	1.21	0.04	<i>LOC101927468</i>	0.60	0.01
	<i>LOC100996419</i>	1.34	0.02	<i>LOC101927505</i>	1.26	0.02
	<i>LOC100996630</i>	1.27	0.04	<i>LOC101927664</i>	0.85	0.01
	<i>LOC101060391</i>	0.80	0.01	<i>LOC101927721</i>	1.22	0.04
	<i>LOC101926948</i>	1.12	0.04	<i>LOC101927766</i>	0.77	0.02

<i>LOC101927023</i>	1.44	<0.01	<i>LOC101927853</i>	1.30	0.03
<i>LOC101927346</i>	0.72	0.02	<i>LOC101928058</i>	1.16	0.03
<i>LOC101927378</i>	1.15	0.02	<i>LOC101928077</i>	0.93	<0.05
<i>LOC101927467</i>	0.83	0.02	<i>LOC101928161</i>	1.14	<0.05
<i>LOC101927502</i>	1.31	<0.05	<i>LOC101928174</i>	1.26	0.03
<i>LOC101927635</i>	0.85	0.01	<i>LOC101928177</i>	0.70	0.02
<i>LOC101927694</i>	1.16	0.02	<i>LOC101928253</i>	1.24	0.04
<i>LOC101927768</i>	0.93	<0.05	<i>LOC101928306</i>	0.67	0.03
<i>LOC101927769</i>	1.22	<0.05	<i>LOC101928404</i>	0.72	<0.05
<i>LOC101927798</i>	0.80	0.01	<i>LOC101928409</i>	0.88	0.02
<i>LOC101927851</i>	1.22	0.04	<i>LOC101928418</i>	1.38	0.04
<i>LOC101927972</i>	0.79	0.04	<i>LOC101928561</i>	1.24	0.02
<i>LOC101928092</i>	1.47	0.04	<i>LOC101928595</i>	1.28	0.03
<i>LOC101928111</i>	1.40	0.01	<i>LOC101929058</i>	0.77	0.03
<i>LOC101928188</i>	1.70	0.04	<i>LOC101929084</i>	1.11	0.03
<i>LOC101928439</i>	0.85	<0.05	<i>LOC101929485</i>	1.14	<0.05
<i>LOC101928472</i>	0.76	0.01	<i>LOC101929526</i>	1.52	0.01
<i>LOC101928711</i>	0.93	0.02	<i>LOC101929538</i>	1.20	<0.05
<i>LOC101928721</i>	1.20	<0.05	<i>LOC101929563</i>	1.12	0.01
<i>LOC101928841</i>	1.15	0.04	<i>LOC101930114</i>	1.14	<0.05
<i>LOC101928877</i>	1.14	0.04	<i>LOC102467216</i>	0.80	0.01
<i>LOC101928896</i>	0.90	0.03	<i>LOC102477328</i>	0.78	0.03
<i>LOC101929140</i>	1.62	0.03	<i>LOC102723418</i>	0.87	0.04
<i>LOC101929153</i>	1.24	<0.01	<i>LOC102723640</i>	1.14	<0.05
<i>LOC101929432</i>	1.09	0.03	<i>LOC102723757</i>	0.90	0.03
<i>LOC101929445</i>	1.33	0.03	<i>LOC102724247</i>	0.83	0.04
<i>LOC101929657</i>	1.18	0.02	<i>LOC102724380</i>	0.68	0.01
<i>LOC101929697</i>	0.87	0.04	<i>LOC102724443</i>	0.89	<0.01
<i>LOC101929723</i>	1.47	0.03	<i>LOC102724465</i>	0.87	0.02
<i>LOC102723313</i>	1.25	0.01	<i>LOC105369391</i>	1.17	0.01
<i>LOC102723714</i>	1.42	0.04	<i>LOC105369406</i>	0.83	0.01
<i>LOC102724509</i>	0.81	0.01	<i>LOC105369413</i>	1.12	<0.01
<i>LOC102724670</i>	0.82	0.01	<i>LOC105369527</i>	1.29	0.03
<i>LOC102724698</i>	1.43	0.03	<i>LOC105369541</i>	1.19	0.02
<i>LOC102724861</i>	1.21	0.01	<i>LOC105369639</i>	1.22	0.02
<i>LOC102725072</i>	1.58	0.04	<i>LOC105369893</i>	0.79	0.02
<i>LOC105369361</i>	0.82	0.01	<i>LOC105370039</i>	0.90	0.03
<i>LOC105369539</i>	1.30	<0.05	<i>LOC105370120</i>	1.12	0.04
<i>LOC105369549</i>	0.94	0.03	<i>LOC105370149</i>	0.82	0.04

	<i>LOC105369859</i>	0.94	0.04	<i>LOC105370186</i>	0.80	0.02
	<i>LOC105369926</i>	0.81	0.04	<i>LOC105370232</i>	1.22	0.02
	<i>LOC105369971</i>	0.93	0.04	<i>LOC105370344</i>	1.14	<0.05
	<i>LOC105369984</i>	0.82	0.03	<i>LOC105370456</i>	0.83	0.01
	<i>LOC105370058</i>	0.78	<0.01	<i>LOC105370492</i>	1.23	<0.01
	<i>LOC105370088</i>	1.24	0.04	<i>LOC105370539</i>	0.80	0.01
	<i>LOC105370129</i>	1.19	0.04	<i>LOC105370560</i>	0.79	<0.05
	<i>LOC105370230</i>	1.34	0.02	<i>LOC105370616</i>	1.27	<0.01
	<i>LOC105370319</i>	0.82	0.03	<i>LOC105370767</i>	1.26	0.03
	<i>LOC105370370</i>	0.91	0.03	<i>LOC105371195</i>	1.26	0.02
	<i>LOC105370415</i>	1.18	<0.01	<i>LOC105371301</i>	0.74	<0.05
	<i>LOC105370632</i>	0.78	0.03	<i>LOC105371357</i>	1.27	0.01
	<i>LOC105370745</i>	0.74	0.02	<i>LOC105371541</i>	0.90	0.04
	<i>LOC105370781</i>	1.10	<0.01	<i>LOC105371560</i>	1.11	<0.05
	<i>LOC105370962</i>	1.18	<0.05	<i>LOC105371600</i>	1.29	0.03
	<i>LOC105371317</i>	0.84	0.03	<i>LOC105371750</i>	1.15	0.03
	<i>LOC105371379</i>	1.10	<0.01	<i>LOC105371760</i>	1.22	0.01
	<i>LOC105371528</i>	1.21	0.02	<i>LOC105371976</i>	1.16	0.01
	<i>LOC105371784</i>	0.83	0.02	<i>LOC105371979</i>	1.17	<0.05
	<i>LOC105371824</i>	1.13	0.04	<i>LOC105372132</i>	1.48	0.02
	<i>LOC105371974</i>	1.42	0.02	<i>LOC105372155</i>	1.17	0.03
	<i>LOC105372009</i>	1.16	<0.05	<i>LOC105372258</i>	1.17	0.01
	<i>LOC105372202</i>	1.14	<0.01	<i>LOC105372330</i>	0.75	<0.01
	<i>LOC105372430</i>	1.25	0.02	<i>LOC105372569</i>	1.15	0.04
	<i>LOC105372587</i>	1.38	0.04	<i>LOC105372596</i>	0.83	<0.01
	<i>LOC105372598</i>	1.31	<0.05	<i>LOC105372929</i>	0.69	0.03
	<i>LOC105372649</i>	1.19	0.04	<i>LOC105373180</i>	1.15	0.03
	<i>LOC105372676</i>	0.85	0.01	<i>LOC105373218</i>	0.85	0.04
	<i>LOC105372763</i>	1.12	<0.01	<i>LOC105373249</i>	1.13	0.02
	<i>LOC105372876</i>	0.73	0.01	<i>LOC105373400</i>	0.87	0.02
	<i>LOC105372999</i>	1.06	0.02	<i>LOC105373508</i>	1.21	0.04
	<i>LOC105373011</i>	1.44	0.02	<i>LOC105373522</i>	1.26	<0.01
	<i>LOC105373082</i>	1.19	0.01	<i>LOC105373530</i>	0.77	0.03
	<i>LOC105373175</i>	0.88	0.02	<i>LOC105373585</i>	1.04	<0.05
	<i>LOC105373484</i>	0.85	<0.05	<i>LOC105373615</i>	1.22	0.04
	<i>LOC105373502</i>	1.09	0.04	<i>LOC105373617</i>	0.84	0.01
	<i>LOC105373586</i>	1.29	0.01	<i>LOC105373784</i>	0.91	0.03
	<i>LOC105373597</i>	1.12	0.04	<i>LOC105373789</i>	0.84	0.03
	<i>LOC105373772</i>	0.70	0.01	<i>LOC105373899</i>	1.12	0.03

	<i>LOC105374005</i>	1.14	0.02	<i>LOC105374229</i>	0.69	0.03
	<i>LOC105374024</i>	0.80	0.03	<i>LOC105374265</i>	0.78	0.03
	<i>LOC105374201</i>	1.17	<0.05	<i>LOC105374546</i>	1.17	0.02
	<i>LOC105374325</i>	0.75	0.01	<i>LOC105374617</i>	0.89	0.03
	<i>LOC105374623</i>	0.90	0.02	<i>LOC105374643</i>	1.19	<0.05
	<i>LOC105374763</i>	0.87	<0.05	<i>LOC105374644</i>	1.10	<0.05
	<i>LOC105374793</i>	0.79	<0.01	<i>LOC105374645</i>	1.23	0.02
	<i>LOC105375287</i>	0.80	0.01	<i>LOC105374728</i>	1.25	0.01
	<i>LOC105375341</i>	0.78	0.02	<i>LOC105374729</i>	1.14	0.01
	<i>LOC105375429</i>	1.31	0.03	<i>LOC105374753</i>	1.11	<0.01
	<i>LOC105375523</i>	1.21	0.04	<i>LOC105374843</i>	1.22	0.04
	<i>LOC105375635</i>	0.82	<0.05	<i>LOC105374905</i>	0.81	0.03
	<i>LOC105375666</i>	1.45	0.01	<i>LOC105375132</i>	0.86	0.04
	<i>LOC105375847</i>	1.23	0.02	<i>LOC105375152</i>	0.77	0.01
	<i>LOC105375937</i>	1.15	0.01	<i>LOC105375224</i>	0.70	0.04
	<i>LOC105376130</i>	0.88	0.02	<i>LOC105375547</i>	0.79	0.03
	<i>LOC105376412</i>	0.85	0.01	<i>LOC105375589</i>	1.11	0.03
	<i>LOC105376605</i>	0.78	0.04	<i>LOC105375710</i>	1.11	0.04
	<i>LOC105376653</i>	1.13	<0.05	<i>LOC105375861</i>	1.20	0.01
	<i>LOC105376706</i>	1.17	0.01	<i>LOC105376020</i>	0.86	<0.05
	<i>LOC105376789</i>	0.87	0.03	<i>LOC105376043</i>	1.17	0.04
	<i>LOC105376975</i>	0.78	0.02	<i>LOC105376063</i>	1.15	0.03
	<i>LOC105377026</i>	1.08	0.02	<i>LOC105376101</i>	0.85	0.04
	<i>LOC105377061</i>	0.73	0.03	<i>LOC105376685</i>	1.22	0.01
	<i>LOC105377105</i>	0.76	0.02	<i>LOC105376928</i>	1.37	0.04
	<i>LOC105377295</i>	1.32	<0.05	<i>LOC105377003</i>	1.22	<0.01
	<i>LOC105377473</i>	1.14	0.01	<i>LOC105377041</i>	0.67	0.01
	<i>LOC105378047</i>	1.21	<0.01	<i>LOC105377115</i>	0.91	0.02
	<i>LOC105378280</i>	1.11	0.01	<i>LOC105377127</i>	1.14	0.04
	<i>LOC105378516</i>	1.24	0.02	<i>LOC105377145</i>	0.89	<0.01
	<i>LOC105378641</i>	1.15	0.04	<i>LOC105377153</i>	0.81	0.03
	<i>LOC105378654</i>	0.92	0.04	<i>LOC105377303</i>	1.17	0.04
	<i>LOC105378702</i>	1.34	0.01	<i>LOC105377505</i>	0.83	0.01
	<i>LOC105378706</i>	1.23	0.03	<i>LOC105377742</i>	0.84	<0.05
	<i>LOC105378738</i>	0.80	0.04	<i>LOC105377755</i>	0.83	0.04
	<i>LOC105378769</i>	1.23	<0.05	<i>LOC105377774</i>	1.19	0.04
	<i>LOC105378839</i>	0.77	0.04	<i>LOC105378309</i>	0.89	<0.05
	<i>LOC105379091</i>	1.27	0.03	<i>LOC105378334</i>	1.11	<0.01
	<i>LOC105379592</i>	1.28	0.02	<i>LOC105378564</i>	1.12	0.01

	<i>LOC105379881</i>	1.32	<0.01	<i>LOC105378612</i>	0.92	0.04
	<i>LOC153910</i>	0.67	0.01	<i>LOC105378618</i>	1.12	0.04
	<i>LOC255654</i>	1.25	0.02	<i>LOC105378727</i>	1.11	<0.01
	<i>LOC339975</i>	1.19	0.03	<i>LOC105378784</i>	0.91	0.04
	<i>LOC400620</i>	1.08	0.03	<i>LOC105378997</i>	1.10	0.01
	<i>LOC400800</i>	1.26	0.02	<i>LOC105379175</i>	0.74	0.04
	<i>LOC643802</i>	1.31	0.01	<i>LOC105379379</i>	1.25	0.02
	<i>LOC729461</i>	0.73	<0.05	<i>LOC105755953</i>	0.76	0.03
	<i>LRIT3</i>	0.80	0.04	<i>LOC149950</i>	1.17	0.03
	<i>LRP4-AS1</i>	0.80	<0.05	<i>LOC339902</i>	0.82	<0.05
	<i>LRRC15</i>	1.32	0.03	<i>LOC401176</i>	0.73	0.03
	<i>LRRC30</i>	1.20	0.02	<i>LOC440602</i>	0.84	0.04
	<i>LRRC40</i>	0.91	0.04	<i>LOC494141</i>	0.89	0.03
	<i>LUC7L3</i>	1.26	0.02	<i>LOC642574</i>	1.14	0.04
	<i>MAP3K15</i>	0.91	0.01	<i>LOC643441</i>	1.09	0.02
	<i>MAP4K1</i>	0.82	0.04	<i>LOC650293</i>	0.75	0.04
	<i>MCM10</i>	0.69	0.03	<i>LRRC32</i>	1.46	0.04
	<i>MEG3</i>	0.82	0.02	<i>LUNAR1</i>	0.77	0.04
	<i>MEP1A</i>	0.67	0.01	<i>LYZL6</i>	0.79	0.02
	<i>MIB1</i>	1.15	<0.05	<i>MAGEB6</i>	0.72	0.01
	<i>MIR1237</i>	0.64	0.04	<i>MAPT-AS1</i>	1.28	<0.05
	<i>MIR1269A</i>	0.83	0.04	<i>MCPHI-AS1</i>	1.17	0.01
	<i>MIR2115</i>	1.23	<0.01	<i>ME3</i>	1.10	<0.01
	<i>MIR217HG</i>	1.15	0.02	<i>MIR103B1</i>	0.90	0.03
	<i>MIR26B</i>	1.28	0.04	<i>MIR103B2</i>	0.70	0.03
	<i>MIR3119-2</i>	0.86	0.04	<i>MIR105-1</i>	0.89	0.02
	<i>MIR3120</i>	0.77	0.01	<i>MIR106A</i>	0.89	<0.05
	<i>MIR3129</i>	0.82	0.03	<i>MIR1283-1</i>	0.75	0.02
	<i>MIR3173</i>	1.11	0.02	<i>MIR146A</i>	1.10	0.04
	<i>MIR324</i>	0.88	<0.01	<i>MIR2052HG</i>	0.84	0.01
	<i>MIR3671</i>	1.89	0.04	<i>MIR2053</i>	0.82	0.02
	<i>MIR3915</i>	0.81	0.04	<i>MIR3150A</i>	1.16	0.04
	<i>MIR3922</i>	1.23	0.04	<i>MIR3156-1</i>	0.81	0.01
	<i>MIR4266</i>	0.47	0.03	<i>MIR3158-1</i>	0.77	<0.05
	<i>MIR4276</i>	0.73	0.03	<i>MIR3198-1</i>	0.80	0.01
	<i>MIR4294</i>	1.25	0.01	<i>MIR320C2</i>	1.51	0.02
	<i>MIR4487</i>	0.78	0.04	<i>MIR342</i>	1.13	0.03
	<i>MIR4645</i>	1.36	0.02	<i>MIR3659</i>	0.91	0.04
	<i>MIR4797</i>	1.26	0.04	<i>MIR3910-1</i>	0.91	0.03

<i>MIR499A</i>	1.32	0.03	<i>MIR4279</i>	0.54	0.03
<i>MIR507</i>	1.28	0.03	<i>MIR4301</i>	1.23	0.04
<i>MIR516B2</i>	0.53	0.04	<i>MIR432</i>	1.34	0.01
<i>MIR519C</i>	0.95	0.02	<i>MIR4476</i>	1.14	0.04
<i>MIR548W</i>	0.83	<0.05	<i>MIR4477A</i>	1.15	<0.05
<i>MIR550B2</i>	1.43	0.04	<i>MIR4483</i>	1.20	0.03
<i>MIR551B</i>	1.17	0.04	<i>MIR4499</i>	0.64	<0.05
<i>MIR670</i>	1.39	0.03	<i>MIR4662A</i>	0.86	0.02
<i>MIR767</i>	0.84	0.01	<i>MIR497HG</i>	0.75	0.03
<i>MIR92B</i>	0.78	<0.05	<i>MIR498</i>	1.15	0.04
<i>MIR934</i>	0.86	0.01	<i>MIR513B</i>	0.77	0.03
<i>MIRLET7A2</i>	1.35	0.04	<i>MIR516B1</i>	0.75	0.02
<i>MPC1L</i>	0.83	0.04	<i>MIR520A</i>	1.48	<0.05
<i>MPLKIP</i>	1.20	<0.05	<i>MIR527</i>	1.60	0.03
<i>MRLN</i>	1.19	0.01	<i>MIR548T</i>	2.11	0.02
<i>MRPL12</i>	0.75	0.02	<i>MIR7-3</i>	1.10	0.02
<i>MRPS7</i>	0.78	0.03	<i>MIXL1</i>	1.20	<0.01
<i>MS4A12</i>	1.19	0.03	<i>MLH1</i>	0.83	0.04
<i>MSH6</i>	0.94	0.04	<i>MLIP-IT1</i>	1.18	0.04
<i>MST1</i>	1.40	0.01	<i>MPP7</i>	1.23	0.04
<i>MTBP</i>	0.84	0.01	<i>MRGPRX2</i>	0.78	0.04
<i>MTRNR2L6</i>	1.25	0.03	<i>MRM1</i>	0.80	0.02
<i>NAPSB</i>	0.80	0.02	<i>MROH9</i>	1.20	0.04
<i>NCL</i>	0.82	0.02	<i>MRPL19</i>	0.87	0.04
<i>NEGR1-IT1</i>	0.85	0.02	<i>MS4A15</i>	1.19	0.03
<i>NGRN</i>	0.84	0.04	<i>MTA2</i>	0.86	0.04
<i>NID2</i>	1.22	<0.05	<i>MTUS2-AS1</i>	1.21	0.04
<i>NKX6-1</i>	1.25	<0.05	<i>MUC19</i>	1.14	0.03
<i>NNT-AS1</i>	1.16	0.04	<i>MUC6</i>	1.10	0.04
<i>NOL11</i>	0.74	<0.05	<i>NCF1C</i>	0.77	0.01
<i>NPAP1</i>	1.25	0.03	<i>NEIL2</i>	0.90	0.04
<i>NPB</i>	0.76	0.01	<i>NEXN-AS1</i>	1.16	<0.05
<i>NR2F2</i>	0.73	0.01	<i>NFAM1</i>	0.87	0.02
<i>NRIR</i>	1.19	0.03	<i>NME9</i>	1.15	0.03
<i>NUDT21</i>	0.81	<0.05	<i>NNAT</i>	1.13	0.03
<i>NUDT8</i>	0.90	0.04	<i>NOB1</i>	0.81	0.03
<i>NUS1</i>	0.85	0.04	<i>NPR3</i>	1.15	0.02
<i>NUTM1</i>	0.79	<0.05	<i>NTRK3</i>	1.19	<0.05
<i>NXF4</i>	0.76	0.03	<i>NUTM2D</i>	1.24	0.04

	<i>OAZ3</i>	0.82	<0.01	<i>OR10G2</i>	0.84	<0.05
	<i>OLIG1</i>	0.92	0.02	<i>OR14I1</i>	0.89	0.04
	<i>OLIG2</i>	0.70	0.03	<i>OR2F1</i>	1.14	0.03
	<i>OOSP2</i>	0.88	<0.05	<i>OR2H2</i>	1.32	0.02
	<i>OPN1MW</i>	1.17	0.02	<i>OR2T11</i>	0.81	0.03
	<i>OR10H4</i>	0.75	0.03	<i>OR2T8</i>	1.06	<0.05
	<i>OR10W1</i>	1.15	0.01	<i>OR52B4</i>	0.86	0.04
	<i>OR10Z1</i>	0.77	0.01	<i>OR56A1</i>	0.75	0.04
	<i>OR2S2</i>	1.38	<0.05	<i>OR6C2</i>	1.21	0.01
	<i>OR2V2</i>	0.77	<0.05	<i>OR6F1</i>	0.84	0.02
	<i>OR3A2</i>	0.83	0.03	<i>OR6M1</i>	0.82	0.03
	<i>OR4D10</i>	1.25	0.02	<i>OVOL3</i>	0.82	<0.01
	<i>OR4D9</i>	0.83	0.01	<i>PAX2</i>	0.86	0.01
	<i>OR4F15</i>	0.78	0.01	<i>PDHX</i>	0.85	0.04
	<i>OR4L1</i>	0.73	<0.01	<i>PDILT</i>	1.26	0.03
	<i>OR6C1</i>	1.20	0.02	<i>PDZD7</i>	1.22	0.01
	<i>OR7A5</i>	0.82	0.02	<i>PEX26</i>	0.84	0.03
	<i>ORMDL3</i>	1.28	0.01	<i>PGBP</i>	1.23	0.01
	<i>PABPC1L2B-AS1</i>	0.94	0.02	<i>PGM2</i>	0.89	<0.05
	<i>PACSIN3</i>	0.89	<0.01	<i>PHF10</i>	0.87	0.02
	<i>PARP1</i>	0.74	0.04	<i>PIGR</i>	0.85	0.02
	<i>PCNA-AS1</i>	0.68	<0.05	<i>PKN2-AS1</i>	0.92	0.03
	<i>PDE1A</i>	0.87	0.02	<i>PNLIPRP3</i>	1.14	0.04
	<i>PDX1</i>	0.89	0.02	<i>PPDPFL</i>	0.83	0.04
	<i>PGLYRP4</i>	0.89	0.04	<i>PPP1R2B</i>	0.71	0.03
	<i>PHF5A</i>	0.78	<0.01	<i>PRKX-AS1</i>	0.75	0.01
	<i>PIEZO2</i>	1.07	<0.01	<i>PRRX2-AS1</i>	1.20	0.01
	<i>PLPBP</i>	0.79	0.01	<i>PTCH2</i>	1.08	0.01
	<i>PLSCR5</i>	0.84	0.02	<i>PTPRD-AS1</i>	0.85	0.01
	<i>PNPLA5</i>	0.76	0.03	<i>PYY</i>	0.82	0.02
	<i>POLA2</i>	0.85	0.03	<i>RAB41</i>	0.85	<0.05
	<i>POLD3</i>	0.83	0.03	<i>RADIL</i>	1.37	0.03
	<i>POLDIP3</i>	0.78	0.01	<i>RAP2A</i>	0.83	<0.05
	<i>POM121L12</i>	1.21	0.03	<i>RBFADN</i>	1.17	0.04
	<i>PPAT</i>	0.77	0.04	<i>RBM46</i>	0.90	0.03
	<i>PPP2R5D</i>	0.71	0.02	<i>REXO1</i>	0.88	0.04
	<i>PRMT3</i>	0.81	0.01	<i>RFTNI</i>	0.90	<0.05
	<i>PRX</i>	1.13	<0.01	<i>RFX1</i>	0.93	0.03
	<i>PSG8</i>	0.83	0.02	<i>RHBG</i>	1.17	<0.05

	<i>PTGES3</i>	0.85	0.04	<i>RIMBP3B</i>	0.92	<0.05
	<i>PTGIR</i>	1.09	0.04	<i>RIPPLY3</i>	0.86	0.04
	<i>RAB9BP1</i>	0.70	0.01	<i>RLN1</i>	1.37	0.03
	<i>RBBP8</i>	0.85	0.02	<i>RMDN2</i>	0.87	0.03
	<i>RBM44</i>	1.19	<0.01	<i>RMDN2-AS1</i>	0.76	0.03
	<i>RBM48</i>	1.09	0.02	<i>RNF208</i>	0.79	0.04
	<i>RGL4</i>	0.86	0.01	<i>RNF214</i>	0.89	0.04
	<i>RHOA</i>	0.92	<0.05	<i>RPL21</i>	0.83	<0.05
	<i>RPL34-DT</i>	1.24	0.01	<i>RPL32</i>	0.74	0.01
	<i>RPS19BP1</i>	0.82	0.03	<i>RPS16</i>	0.85	0.03
	<i>RPS6KA2-AS1</i>	1.12	<0.01	<i>RPS18</i>	0.85	<0.01
	<i>RPSAP52</i>	0.75	0.03	<i>RRP9</i>	0.81	0.02
	<i>RPUSD2</i>	0.76	0.03	<i>SCARF2</i>	1.16	0.03
	<i>RRP12</i>	0.85	0.04	<i>SCG5</i>	1.14	0.04
	<i>RRP8</i>	0.75	0.02	<i>SDCBPP2</i>	1.22	0.01
	<i>RSPO1</i>	1.21	0.01	<i>SELENOH</i>	0.85	0.04
	<i>RUVBL2</i>	0.72	0.02	<i>SF3A2</i>	0.83	0.04
	<i>RXRG</i>	0.88	0.04	<i>SIGLEC11</i>	1.39	<0.01
	<i>SAAL1</i>	0.79	<0.05	<i>SIGLECL1</i>	0.84	0.01
	<i>SAP18</i>	0.76	<0.01	<i>SIT1</i>	1.22	<0.01
	<i>SCOC-AS1</i>	1.21	0.01	<i>SLC22A12</i>	0.92	0.01
	<i>SCTR</i>	1.18	0.01	<i>SLC27A3</i>	0.90	0.04
	<i>SDC4</i>	1.34	0.04	<i>SLC35G3</i>	1.24	0.02
	<i>SEC14L2</i>	1.28	0.03	<i>SLC35G5</i>	1.32	0.03
	<i>SEC24C</i>	0.95	0.04	<i>SLC38A3</i>	0.88	0.03
	<i>SEC31B</i>	1.37	0.02	<i>SLC49A3</i>	0.88	0.01
	<i>SEPTIN14P20</i>	1.48	0.02	<i>SLC7A3</i>	0.86	0.03
	<i>SERPINA4</i>	0.89	0.04	<i>SMAD1-AS2</i>	0.67	<0.01
	<i>SET</i>	0.69	0.01	<i>SMTNL2</i>	1.21	0.02
	<i>SETD4</i>	1.17	<0.05	<i>SNORA30</i>	1.42	0.04
	<i>SFMBT2</i>	1.32	0.01	<i>SNORD113-7</i>	0.81	0.02
	<i>SFTPB</i>	1.30	0.03	<i>SNORD114-6</i>	1.77	<0.05
	<i>SGF29</i>	0.71	0.01	<i>SNORD116-30</i>	1.45	<0.05
	<i>SIGLEC6</i>	0.84	0.02	<i>SNORD116-5</i>	1.25	0.03
	<i>SIRPD</i>	1.18	0.04	<i>SNRPEP2</i>	0.82	0.02
	<i>SKA3</i>	0.64	0.04	<i>SPATA32</i>	1.30	0.04
	<i>SLA</i>	1.11	<0.05	<i>SPDYE3</i>	0.50	0.02
	<i>SLAMF1</i>	1.15	0.04	<i>SPG21</i>	0.82	<0.05
	<i>SLC27A1</i>	1.36	0.01	<i>SPO11</i>	1.10	0.01

	<i>SLC5A8</i>	1.25	<0.05	<i>SPRNPI</i>	0.86	0.01
	<i>SMARCB1</i>	0.82	0.03	<i>SPRR2C</i>	1.25	<0.01
	<i>SMDT1</i>	0.86	0.04	<i>SPRR4</i>	1.19	0.04
	<i>SMIM18</i>	1.15	<0.05	<i>STMN2</i>	0.70	0.02
	<i>SNORA35</i>	1.15	<0.05	<i>STMN4</i>	1.40	0.01
	<i>SNORD59B</i>	1.38	0.03	<i>SUMO1</i>	1.36	0.03
	<i>SNRNP40</i>	0.81	0.03	<i>TAC4</i>	1.18	0.04
	<i>SNRPD2</i>	0.78	0.03	<i>TAF1A</i>	1.19	0.01
	<i>SNRPD3</i>	0.76	<0.05	<i>TAT-ASI</i>	1.24	0.02
	<i>SNRPF</i>	0.68	0.04	<i>TBX15</i>	1.20	0.02
	<i>SPANXN4</i>	1.41	0.01	<i>TDGF1P3</i>	1.33	0.01
	<i>SPATA31A1</i>	1.06	<0.05	<i>TEX29</i>	1.42	0.02
	<i>SPON1</i>	1.28	0.01	<i>TLR7</i>	1.17	<0.05
	<i>SRGAP2-ASI</i>	0.69	<0.01	<i>TM4SF18</i>	1.19	0.01
	<i>SSI8L2</i>	0.84	0.04	<i>TMEM141</i>	0.89	0.02
	<i>ST7-AS2</i>	0.83	0.01	<i>TMEM212-ASI</i>	1.17	0.01
	<i>STEAP1B</i>	1.21	0.01	<i>TMEM244</i>	1.23	0.04
	<i>SUCLA2-ASI</i>	0.71	0.04	<i>TMEM26-ASI</i>	0.91	0.04
	<i>SYNJ2</i>	1.11	0.02	<i>TMEM30CP</i>	1.13	0.01
	<i>TAF3</i>	0.79	0.03	<i>TMEM72-ASI</i>	0.75	0.02
	<i>TAS2R16</i>	1.33	0.03	<i>TMEM88B</i>	0.87	0.02
	<i>TASL</i>	1.22	0.01	<i>TNFSF11</i>	1.13	0.04
	<i>TBL2</i>	0.79	0.04	<i>TNK2-ASI</i>	0.94	0.01
	<i>TEX22</i>	0.83	0.01	<i>TPI1P3</i>	1.49	0.04
	<i>TEX28</i>	0.91	<0.05	<i>TRAV12-3</i>	1.28	0.01
	<i>TEX35</i>	1.12	<0.05	<i>TRAV7</i>	0.86	0.02
	<i>TEX41</i>	0.84	0.02	<i>TRAV8-7</i>	0.90	0.04
	<i>TGMI</i>	0.83	<0.01	<i>TRBV10-2</i>	0.77	0.02
	<i>THEMIS</i>	0.85	<0.05	<i>TRBV7-4</i>	1.41	0.01
	<i>THOP1</i>	0.85	<0.01	<i>TTLL1</i>	1.26	0.03
	<i>TIFAB</i>	1.34	0.01	<i>UTF1</i>	1.18	0.02
	<i>TK2</i>	1.22	0.01	<i>VENTX</i>	1.19	<0.01
	<i>TM6SF1</i>	1.27	0.04	<i>VSTM2A-OT1</i>	1.18	0.01
	<i>TMEM132E</i>	1.17	0.03	<i>WDR88</i>	0.87	0.04
	<i>TMEM140</i>	1.47	0.03	<i>WHAMMP3</i>	1.15	0.01
	<i>TMEM252</i>	0.78	0.03	<i>WNT7A</i>	0.70	0.03
	<i>TMEM40</i>	1.21	<0.05	<i>XLOC_009911</i>	1.52	0.01
	<i>TMEM41B</i>	1.31	0.03	<i>ZNF157</i>	1.61	0.02
	<i>TMEM70</i>	0.86	0.03	<i>ZNF322</i>	0.92	<0.01

	<i>TMEM74</i>	0.79	0.04	<i>ZNF667</i>	0.90	0.03
	<i>TNFRSF17</i>	1.12	0.04	<i>ZPLD1</i>	0.87	<0.05
	<i>TOMM40</i>	0.60	0.04			
	<i>TRAJ13</i>	1.31	<0.05			
	<i>TRAJ37</i>	1.41	0.02			
	<i>TRAJ56</i>	1.26	<0.05			
	<i>TRAJ9</i>	1.55	0.04			
	<i>TRDJ2</i>	1.22	0.02			
	<i>TRIM49B</i>	0.85	0.03			
	<i>TRIM51EP</i>	1.16	<0.05			
	<i>TRIM68</i>	1.13	0.03			
	<i>TRMO</i>	0.93	0.03			
	<i>TRMT44</i>	1.11	<0.05			
	<i>TRPM3</i>	0.94	0.04			
	<i>TSPO2</i>	1.26	0.02			
	<i>TSR3</i>	0.77	0.03			
	<i>TTC3</i>	1.21	0.03			
	<i>TTY5</i>	0.82	0.03			
	<i>TUBA3D</i>	0.81	<0.01			
	<i>TUBA4B</i>	0.82	0.01			
	<i>TUSC1</i>	0.83	0.04			
	<i>UBE2D2</i>	0.78	0.01			
	<i>UBE2I</i>	0.77	<0.05			
	<i>UBE2S</i>	0.66	0.02			
	<i>UBTFL1</i>	0.73	0.03			
	<i>UGT2A2</i>	1.35	0.02			
	<i>UNC13C</i>	1.22	0.04			
	<i>USH1G</i>	0.80	<0.05			
	<i>USP1</i>	0.78	0.01			
	<i>USP17L10</i>	1.34	<0.01			
	<i>VSX2</i>	0.91	0.01			
	<i>VWA5B1</i>	0.72	0.02			
	<i>WFDC1</i>	1.16	0.03			
	<i>WFDC13</i>	1.32	0.02			
	<i>WFIKK2</i>	1.11	0.04			
	<i>YDJC</i>	0.81	0.04			
	<i>ZBTB9</i>	0.77	0.02			
	<i>ZC3H18-AS1</i>	1.15	<0.01			
	<i>ZCCHC10</i>	0.81	<0.01			

	<i>ZKSCAN1</i>	1.25	0.04			
	<i>ZNF273</i>	1.20	0.03			
	<i>ZNF365</i>	1.23	0.04			
	<i>ZNF436-AS1</i>	1.17	<0.01			
	<i>ZNF549</i>	1.34	0.02			
	<i>ZNF579</i>	0.95	0.03			
	<i>ZNF593</i>	0.77	0.01			
	<i>ZNF677</i>	0.74	0.02			
	<i>ZNF705A</i>	1.31	0.04			
	<i>ZNF705D</i>	0.80	0.04			
	<i>ZNF771</i>	0.87	0.04			
	<i>ZNF781</i>	1.18	<0.05			
	<i>ZNF833P</i>	1.45	0.03			
	<i>ZNF876P</i>	1.45	0.01			
	<i>ZNF91</i>	1.19	0.03			

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