

Supplementary Table 1: Non-small cell lung cancer cell lines used to develop the sorafenib sensitivity signature

| Sort | Cell Line | KRAS | EGFR | Sorafenib (uM) |
|------|-----------|--------------------------|------|----------------|
| 1 | H1703 | WT | WT | -0.85 |
| 2 | H2009 | [c.35G>C; p.G12A] | WT | -0.71 |
| 3 | H2405 | WT | WT | -0.24 |
| 4 | HCC1833 | WT | WT | -0.12 |
| 5 | HCC2429 | WT | WT | -0.02 |
| 6 | H1693 | WT | WT | 0.02 |
| 7 | H2087 | WT | WT | 0.08 |
| 8 | H2073 | WT | WT | 0.10 |
| 9 | H1755 | WT | WT | 0.11 |
| 10 | H2882 | WT | WT | 0.13 |
| 11 | EKVX | WT | WT | 0.14 |
| 12 | HCC1195 | WT | WT | 0.19 |
| 13 | H2342 | WT | WT | 0.20 |
| 14 | H522 | WT | WT | 0.21 |
| 15 | HCC4018 | WT | WT | 0.24 |
| 16 | H1395 | WT | WT | 0.24 |
| 17 | H226 | WT | WT | 0.30 |
| 18 | HCC4019 | [c.35G>T; p.G12V] | WT | 0.33 |
| 19 | Calu-6 | [c.180_181TC>CA; p.Q61K] | WT | 0.33 |
| 20 | H1770 | WT | WT | 0.35 |
| 21 | H920 | WT | WT | 0.42 |
| 22 | H1437 | WT | WT | 0.43 |
| 23 | HCC461 | 12GAT (Gazdar) | WT | 0.44 |
| 24 | H23 | [c.34G>T; p.G12C] | WT | 0.44 |
| 25 | H157 | [c.34G>C; p.G12R] | WT | 0.45 |
| 26 | H2228 | WT | WT | 0.45 |
| 27 | H322 | WT | WT | 0.46 |
| 28 | H1155 | [c.183A>T; p.Q61H] | WT | 0.48 |
| 29 | SK-LU-1 | [c.35G>A; p.G12D] | WT | 0.48 |
| 30 | H2122 | [c.34G>T; p.G12C] | WT | 0.49 |
| 31 | A549 | [c.34G>A; p.G12S] | WT | 0.52 |
| 32 | HCC1359 | WT | WT | 0.52 |
| 33 | H358 | [c.35G>T; p.G12V] | WT | 0.52 |
| 34 | HCC95 | WT | WT | 0.52 |
| 35 | HCC515 | [c.38G>A; p.G13D] | WT | 0.52 |
| 36 | HCC44 | [c.34G>T; p.G12C] | WT | 0.53 |
| 37 | H1299 | WT | WT | 0.53 |
| 38 | H1568 | WT | WT | 0.54 |
| 39 | H650 | [c.182A>T; p.Q61L] | WT | 0.54 |

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|----|----------------|------------------------|----|------|
| 40 | H1993 | WT | WT | 0.55 |
| 41 | H2126 | WT | WT | 0.55 |
| 42 | HCC193 | WT | WT | 0.55 |
| 43 | H460 | [c.183A>T; p.Q61H] | WT | 0.57 |
| 44 | Calu-1 | [c.34G>T; p.G12C] | WT | 0.57 |
| 45 | H1838 | WT | WT | 0.61 |
| 46 | HCC15 | WT | WT | 0.61 |
| 47 | H1355 | [c.37G>T; p.G13C] | WT | 0.64 |
| 48 | H2887 | [c.35G>T; p.G12V] | WT | 0.64 |
| 49 | H324 | WT | WT | 0.65 |
| 50 | H2170 | WT | WT | 0.66 |
| 51 | HCC4017 | [c.35G>T; p.G12V] | WT | 0.67 |
| 52 | Calu-3 | WT | WT | 0.67 |
| 53 | H1734 | [c.37G>T; p.G13C] | WT | 0.68 |
| 54 | H661 | WT | WT | 0.68 |
| 55 | H1819 | WT | WT | 0.68 |
| 56 | HCC366 | WT | WT | 0.71 |
| 57 | HCC78 | WT | WT | 0.71 |
| 58 | H2347 | WT | WT | 0.72 |
| 59 | H1666 | WT | WT | 0.73 |
| 60 | HOP-62 | [c.34G>T; p.G12C] | WT | 0.75 |
| 61 | H1648 | WT | WT | 0.76 |
| 62 | H2291 | [c.34_35GG>TT; p.G12F] | WT | 0.81 |
| 63 | H441 | [c.35G>T; p.G12V] | WT | 0.82 |
| 64 | H82 | WT | WT | 0.82 |
| 65 | H1373 | [c.34G>T; p.G12C] | WT | 0.89 |
| 66 | H1792 | [c.34G>T; p.G12C] | WT | 0.89 |
| 67 | H1781 | WT | WT | 0.93 |
| 68 | HCC1171 | [c.35G>T; p.G12V] | WT | 0.95 |