

Supplemental Figure for:  
Next-Generation Sequencing of Circulating Tumor DNA Reveals Frequent Alterations in Advanced Hepatocellular Carcinoma  
Sadakatsu Ikeda et al.

**Figure S1.** Genes covered by Guardant 360

Genes with Complete Exon and Partial Intron Coverage

Gene	LOD	Gene	LOD	Gene	LOD	Gene	LOD
<i>APC</i>	<0.1%	<b><i>AR</i></b>	<0.1%	<i>ARID1A</i>	<0.1%	<b><i>BRAF</i></b>	<0.1%
<i>BRCA1</i>	<0.1%	<i>BRCA2</i>	<0.1%	<i>CCND1</i>	<0.1%	<i>CCND2</i>	<0.1%
<b><i>CCNE1</i></b>	<0.1%	<b><i>CDK4</i></b>	<0.1%	<b><i>CDK6</i></b>	<0.1%	<i>CDKN2A</i>	<0.1%
<i>CDKN2B</i>	<0.1%	<b><i>EGFR</i></b> <sup>#</sup>	<0.1%	<b><i>ERBB2</i></b>	<0.1%	<b><i>FGFR1</i></b>	<0.1%
<i>FGFR2</i>	<0.1%	<i>HRAS</i>	<0.1%	<b><i>KIT</i></b>	<0.1%	<b><i>KRAS</i></b>	<0.1%
<b><i>MET</i></b>	<0.1%	<i>MYC</i>	<0.1%	<i>NF1</i>	<0.1%	<i>NRAS</i>	<0.1%
<b><i>PDGFRA</i></b>	<0.1%	<i>PIK3CA</i>	<0.1%	<i>PTEN</i>	<0.1%	<b><i>RAF1</i></b>	<0.1%
<i>TP53</i>	<0.1%						

Genes in bold are those that are also analyzed for copy number variations (CNVs).

<sup>#</sup> EGFR indels in exon 19 and 20.

Genes with Critical Exon Coverage

Gene	LOD	Gene	LOD	Gene	LOD	Gene	LOD
<i>AKT1</i>	<0.1%	<i>ALK</i>	<0.1%	<i>ARAF</i>	<0.1%	<i>ATM</i>	<0.1%
<i>CDH1</i>	<0.1%	<i>CTNNB1</i>	<0.1%	<i>ESR1</i>	<0.1%	<i>EZH2</i>	<0.1%
<i>FBXW7</i>	<0.1%	<i>FGFR3</i>	<0.1%	<i>GATA3</i>	<0.1%	<i>GNA11</i>	<0.1%
<i>GNAQ</i>	<0.1%	<i>GNAS</i>	<0.1%	<i>HNF1A</i>	<0.1%	<i>IDH1</i>	<0.1%
<i>IDH2</i>	<0.1%	<i>JAK2</i>	0.1%	<i>JAK3</i>	<0.1%	<i>MAP2K1</i>	<0.1%
<i>MAP2K2</i>	<0.1%	<i>MLH1</i>	<0.1%	<i>MPL</i>	<0.1%	<i>NFE2L2</i>	<0.1%
<i>NOTCH1</i>	<0.1%	<i>NPM1</i>	0.2%	<i>NTRK1</i>	<0.1%	<i>PTPN11</i>	<0.1%
<i>RET</i>	<0.1%	<i>RHEB</i>	0.1%	<i>RHOA</i>	<0.1%	<i>RIT1</i>	<0.1%
<i>ROS1</i>	0.1%	<i>SMAD4</i>	<0.1%	<i>SMO</i>	<0.1%	<i>SRC</i>	<0.1%
<i>STK11</i>	<0.1%	<i>TERT</i>	<0.1%	<i>VHL</i>	<0.1%		

Rearrangements

Gene	LOD	Gene	LOD	Gene	LOD	Gene	LOD
<i>ALK</i>	<0.1%	<i>NTRK1</i>	<0.1%	<i>RET</i>	<0.1%	<i>ROS1</i>	<0.1%