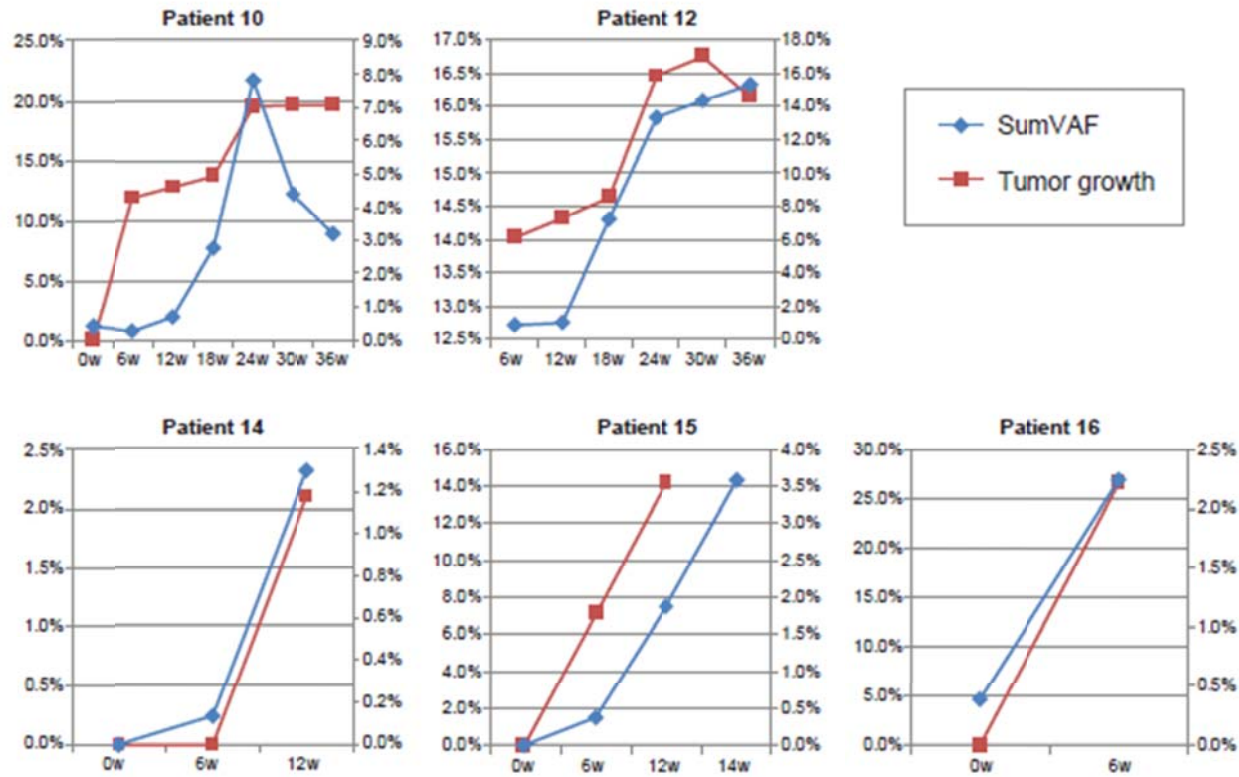


Supplementary Figure 1: IGV view of multiple variants within the 24-week cfDNA sample from patient 12

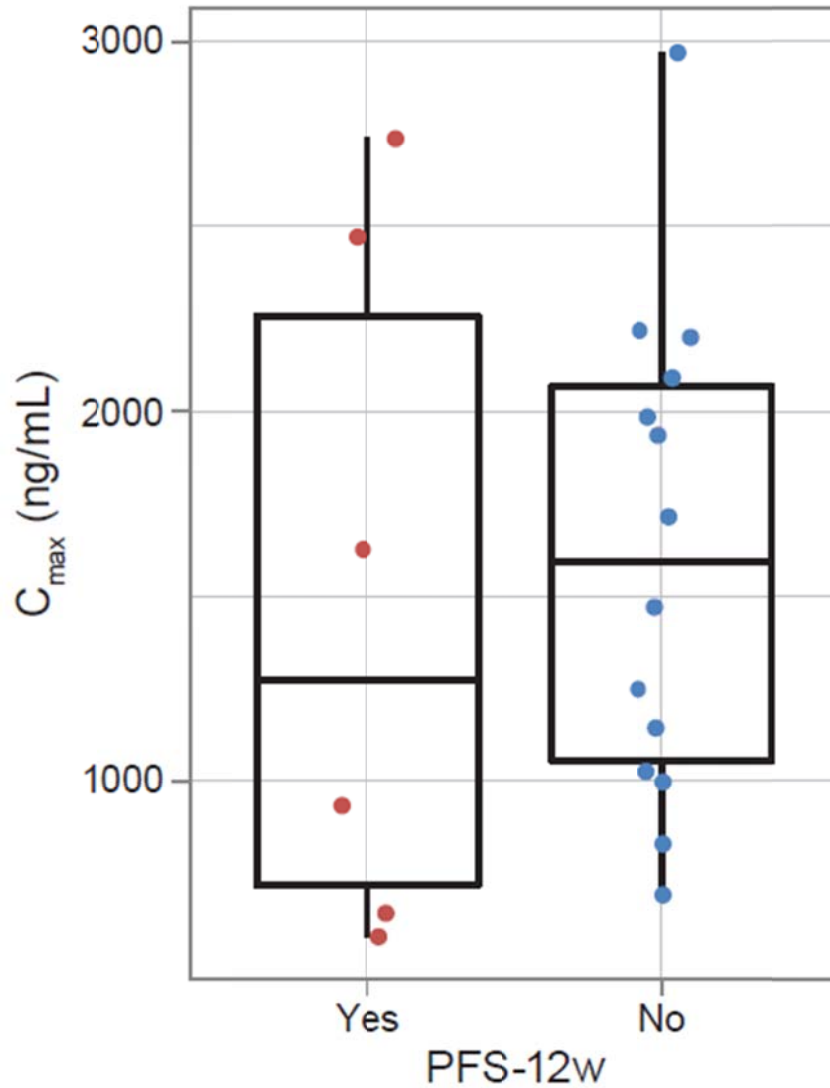
Blue, brown and red colors indicate sequencing reads containing a *TP53* variant within the sequencing alignment. Variants affecting neighboring bases are not on the same DNA strand, suggesting that these variants originated from separate clones in the tumor.

IGV, integrative genomics viewer.



Supplementary Figure 2: Comparison of tumor growth and total *TP53* mutation burden in cfDNA

Tumor growth is presented as percentage change in tumor size by computed tomography measurement relative to baseline measurement (Y axis 1, left). Total *TP53* mutation burden is sum of all *TP53* variant allelic fractions (VAF; Y axis 2, right). X axis represents time on treatment (weeks).



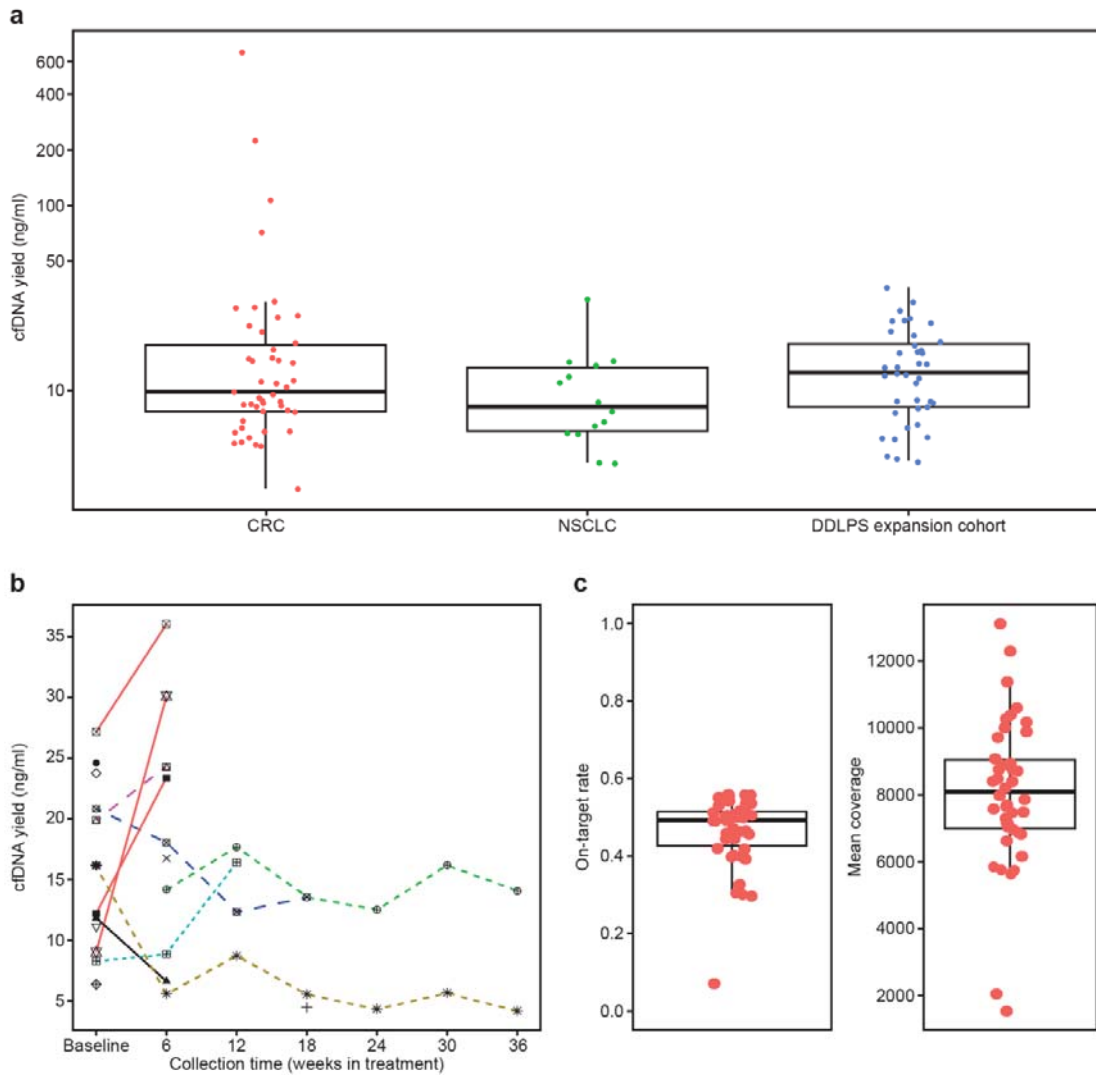
Supplementary Figure 3: Comparison of C_{max} at baseline (Cycle 1, Day 1) for patients with and without progression-free survival at 12 weeks (PFS-12w)

Box plots with actual data points are shown ($n = 20$). Center line indicates median value.

Bottom and top of the whiskers represent the smallest and largest non-outlier values

respectively. Lower and top end of the box indicate the 1st and 3rd quartile respectively.

Supplementary Figure 4: cfDNA yields in patients with DDLPS receiving SAR2405838



(a) Plasma cfDNA was isolated from patients participating in the DDLPS expansion cohort. The cfDNA yield was similar to that observed in the 60 matched CRC and NSCLC tumor and plasma pairs. Box plots with actual data points are shown. CRC, colorectal cancer (n = 46); DDLPS, de-differentiated liposarcoma (n = 39); NSCLC, non-small cell lung cancer (n = 14).

(b) The plasma cfDNA yield from patients participating in the DDLPS expansion cohort did not consistently increase or decrease over time.

(c) cfDNA sequencing QC results from the DDLPS expansion cohort suggest that most libraries met our targets of 40% on-target rate and 8000X mean sequence coverage. Box plots with actual data points are shown (n = 39).

cfDNA, cell-free DNA; CRC, colorectal cancer; DDLPS, de-differentiated liposarcoma; NSCLC, non-small cell lung cancer.

Supplementary Table 2: TP53 probe sequences

Hs_TP53_e1_1 /5Biosg/TGTCCAGCTTTGTGCCAGGACCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCTCCCATGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAGTCTAGAGCCACCCTCCAG
Hs_TP53_e1_2 /5Biosg/GGAGCAGGTAGCTGCTGGGCTCCGGGGACACTTTGCGTTCGGGCTGGGAGCGTGCTTCCACGACGGTGACACGCTTCCCTGGATTGGGTAAGCTCCTGACTGAACTTGATGAGTCCCT
Hs_TP53_e2_1 /5Biosg/GGCCCAGGTGACCCAGGGTTGGAAGTGTCTCATGCTGGATCCCACTTTTCTCTTTCAGCAGCAGCAGACTGCCCTCCGGGCTACTGCCATGGAGGAGCCGAGTCAGATCCTAGCGTCGA
Hs_TP53_e2_2 /5Biosg/GCCCCCTCTGAGTCAGGAAACATTTTCAGACCTATGAAACTGTGAGTGGATCCATTTGAAAGGGCAGGCCACCACCCCAACCCAGCCCCCTAGCAGAGACCTGTGGAAAGCG
Hs_TP53_e2_3 /5Biosg/AAAATTCATGGGACTGACTTTCTGCTCTTTCAGACTTCTGAAACAACCTTCTGTAAGGACAAGGGTTGGGCTGGGACCTGGAGGGCTGGGACCTGGAGGGCTGGGGGGC
Hs_TP53_e3_1 /5Biosg/GAGGACCTGGTCCCTGACTGCTCTTTTACCACATCAGACTCCCTTCCGCTCCCAAGCAATGGATGATTTGATGCTGCTCCCGGACGATATTGAACAATGGTCTACTGAAGACCAG
Hs_TP53_e3_2 /5Biosg/GTCCAGATGAAGCTCCAGAATGCCAGAGGCTGCTCCCCCTGGGCCCTGCACAGCAGCTCCTACACCGCGGCCCTGCACAGCCCTCTCGGCCCTGTCATCTTCTGCTCCCT
Hs_TP53_e3_3 /5Biosg/CCCAGAAAACCTACCAGGGCAGCTACGGTTCCGCTCTGGGCTTCTTGCACTTGGGACAGCAAGTCTGTGACTTGCACGGTCAGTTGCCCTGAGGGGCTGGCTCCATGAGACTTCAAT
Hs_TP53_e4_1 /5Biosg/GCTGAGGTGGGAAGATCACTTGAGGCCAGGAGATGGAGGCTCAGTGTGATCAGCAGCTGTGCTCCAGCTGAGTGACAGAGCAAGACCCCTATCTCAAAAAAAAAAAAAAAAA
Hs_TP53_e4_2 /5Biosg/GAAAAGCTCCTGAGGTGTAGACGCCAATCTCTAGCTCGCTAGTGGGTTGCGAGAGGTGCTTACGCATGTTGTTTCTTTCGCTGCCCTTCCAGTTGCTTATCTGTTCACTGTGTC
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Hs_TP53_e4_4 /5Biosg/CGGCACCCCGCTCCGCGCCATGGCCATCTACAAGCAGTACACAGCAGTACGAGGAGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCAGTGGTGGAGCAGCTGGGGCTGGA
Hs_TP53_e5_1 /5Biosg/TTAGGTCTGGCCCTCTCAGCATCTATCCGAGTGGAAAGAAATTTGCGTGTGGAGTATTGGATGACAGAAACACTTTTCGACATAGTGTGGTGGCCCTATGAGCCGCTGAGGT
Hs_TP53_e6_1 /5Biosg/TCTAGGTGGCTCTGACTGTACCACCATCCACTACAACACTACATGTGTAACAGTTCCTGCATGGGCGGCATGAACCGGAGGCCATCTCACCATCATCACTGGAAGACTCCAGGTCA
Hs_TP53_e7_1 /5Biosg/TAGGACTGATTTCCTACTGCCTCTTCTCTCTTTTCTTCTCTGAGTGTGTAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGTGTTGCTGCTCCTGGAGAGACCGGGCGCA
Hs_TP53_e7_2 /5Biosg/CAGAGGAAGAAATCTCCGCAAGAAAGGGGAGCCTACCACGAGCTGCCCCAGGAGCACTAAGCGAGTAAGCAAGCAGGACAAGAGCGGTGAGGAGAGCAAGGTGAGTATGAG
Hs_TP53_e8_1 /5Biosg/CACCTTTCTTGGCTCTTTCTAGCACTGCCAACACACAGCTCCTCTCCCAAGCAAGAAAGAAACACTGGATGGAAATATTTACCCCTCAGGTACTAAGTCTTGGGACCTCT
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Hs_TP53_e11_3 /5Biosg/GGGCTCCACTGAACAAGTTGGCCTGCAGTGGTGTGTTGTTGGGGAGGAGGATGGGAGTAGGACATACCAGCTTAGATTTAAGGTTTTACTGTGAGGGATGTTGGGAGATGTAAG
Hs_TP53_e11_4 /5Biosg/AAATGTTCTTGCAGTTAAGGGTTAGTTTACAATCAGCCACATCTAGGTAGGGGCCACTTCCAGCTACTAACCAGGAAAGCTGCCCTCACTGTGAAATTTCTCAACTTCAAGGCC
Hs_TP53_e11_5 /5Biosg/ATATCTGTGAAATGCTGGCATTGACACCTACCTCAGAGTGCATTTGAGGGTAAATGAAATATGTAGATCTGGCCTTGAACCCACTTTTATACATGGGGTCTAGAAGTTGACCCC
Hs_TP53_e11_6 /5Biosg/CTTGGAGGGTCTGTTCCCTCTCCCTGTTGGTCCGTTGGTGTGTTTCTACAGTTGGGACAGCTGGTATGAGGAGGAGTTGCAAGTCTGCTGGCCCAAGCAACCCCTGCTGAC
Hs_TP53_e11_7 /5Biosg/AACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCATCCACACCCCTGGAGGATTTATCTCTTGTATATGATGATCTGGATCCACAAGACTGTTTATGCTCAGGGTCA
Hs_TP53_e11_8 /5Biosg/ATTTCTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTCTTTTCTTTGAGACTGGGCTCGCTTTGTTGCCAGGCTGGAGTGGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCCTCCCGCT
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Hs_TP53_e11_10 /5Biosg/AACTCCTGGGCTCAGGCTACACCTGTCTCAGCTCCAGAGTGTGGGATTACAATTGTAGGCCACCAGCTCCAGCTGGAAGGTCACACTTTTTTACTTCTGCAAGCAGTCTGCA
Hs_TP53_e11_11 /5Biosg/TTTTCAACCCACCCCTCCCTCTCTCTCTTTTATATCCATTTTATATCGATCTTATTTTACAATAAACTTTGCTGCCACCTGTGTCTGAGGGTGAACGCCAGTGCAGGC