

Supplemental Table S1. Coverage Information

Sample	Total bases aligned (bases)	Mean target coverage depth
Case 1 normal thyroid	3,726,398,011	73.99
Case 1 primary tumor	3,323,590,727	66.00
Case 2 normal thyroid	3,481,668,425	69.13
Case 2 primary tumor	3,388,100,045	67.28
Case 3 normal thyroid	3,317,447,134	65.87
Case 3 primary tumor	3,630,382,603	72.09
Case 4 normal thyroid	3,556,270,924	70.62
Case 4 primary tumor	3,433,783,365	68.18
Case 5 normal thyroid	4,349,203,274	86.36
Case 5 primary tumor	3,556,484,924	70.62
Case 6 normal thyroid	3,801,700,387	75.49
Case 6 primary tumor	4,166,889,557	82.74
Case 7 normal thyroid	4,990,843,131	99.10
Case 7 primary tumor	4,101,030,678	81.43
Case 8 normal thyroid	4,058,721,836	80.59
Case 8 primary tumor	3,822,126,405	75.89
Case 9 normal thyroid	3,519,019,188	69.88
Case 9 primary tumor	3,278,574,012	65.10
Case 10 normal thyroid	3,708,708,071	73.64
Case 10 primary tumor	3,360,033,166	66.72
Case 11 normal thyroid	3,821,623,983	75.88
Case 11 primary tumor	3,916,083,409	77.76
Case 12 normal thyroid	4,348,210,568	86.34
Case 12 primary tumor	4,289,957,336	85.18
Case 13 normal thyroid	3,403,659,682	67.59
Case 13 primary tumor	3,091,981,845	61.40
Case 14 normal thyroid	4,086,285,101	81.14

*(Continued to the next)***Supplemental Table S1.** Continued

Sample	Total bases aligned (bases)	Mean target coverage depth
Case 14 primary tumor	4,563,168,820	90.61
Case 15 normal thyroid	3,457,630,844	68.66
Case 15 primary tumor	3,405,023,016	67.61
Case 16 normal thyroid	3,570,200,970	70.89
Case 16 primary tumor	3,254,706,933	64.63
Case 17 normal thyroid	3,653,244,349	72.54
Case 17 primary tumor	2,668,536,221	52.99
Case 18 normal thyroid	3,417,876,753	67.87
Case 18 primary tumor	3,372,487,944	66.97
Case 19 normal thyroid	3,160,161,040	62.75
Case 19 primary tumor	3,336,764,838	66.26
Case 20 normal thyroid	3,410,896,733	67.73
Case 20 primary tumor	3,326,561,493	66.05
Case 21 normal thyroid	3,245,253,930	64.44
Case 21 primary tumor	3,223,016,145	64.00
Case 22 normal thyroid	3,434,122,104	68.19
Case 22 primary tumor	3,019,946,294	59.97
Case 23 normal thyroid	3,287,440,099	65.28
Case 23 primary tumor	3,653,452,828	72.55
Case 24 normal thyroid	3,501,359,026	69.53
Case 24 primary tumor	3,856,813,038	76.58
Case 25 normal thyroid	3,377,698,429	67.07
Case 25 primary tumor	3,187,674,629	63.30
Case 26 normal thyroid	3,572,318,228	70.93
Case 26 primary tumor	3,404,314,360	67.60
Case 27 normal thyroid	2,506,634,093	49.77
Case 27 primary tumor	3,310,520,082	65.74