

Table S2: Summary of overall quality and variants identified in all samples sequenced

Sample ID	Gender	Genome coverage (>=1X)*	Genome coverage depth	Genome coverage >= 5x (NA)	Genome coverage >= 10x (NA)	Genome coverage >= 20x (NA)	Genome coverage >= 40x (NA)	Exome coverage (>= 5x) (NA)	Exome coverage (>= 10x) (NA)	Exome coverage (>= 20x) (NA)	Exome coverage (>= 40x) (NA)	SNV total count	Homozygous SNV count	Heterozygous SNV count	SNV heterozygous/homozygous ratio	INS total count	DEL total count	Exome SNV total count	Exome homozygous SNV count	Exome heterozygous SNV count	Exome SNV heterozygous/homozygous ratio	Exome SNV transitions/transversions ratio	Exome INS total count	Exome DEL total count	Total CNV segments count	Total deletion segments count	Total duplication segments count	Exome deletion segments count	Exome duplication segments count	
HD09A	M	0.9719750	30.3418780	0.9635160	0.9357090	0.7751630	0.0124160	0.9799320	0.9743010	0.9126710	0.1082440	3,149,462	1,359,847	1,789,615	1.32	2.15	125932	144566	17594	7270	10324	1.42	3.31	96	135	1658	1633	25	24	11
HD09B	F	0.9665510	30.4995640	0.9610440	0.9472960	0.7935400	0.0118940	0.9780990	0.9736890	0.9221250	0.0942500	3,159,560	1,349,394	1,810,166	1.34	2.14	126998	145296	17461	7291	10170	1.39	3.33	95	131	1686	1661	25	26	8
HD09C	M	0.9723020	31.0611840	0.9640000	0.9377460	0.7792500	0.0228240	0.9791240	0.9799170	0.9052090	0.1301710	3,148,538	1,360,567	1,787,971	1.31	2.15	126405	144799	17327	7277	10050	1.38	3.33	96	128	1683	1655	26	24	10
HK164A	M	0.9766480	31.9722350	0.9722260	0.9650030	0.8941240	0.1999750	0.9803100	0.9759480	0.9298350	0.1671180	3,183,911	1,338,357	1,845,554	1.38	2.15	127855	145558	17777	7291	10486	1.44	3.34	86	130	1708	1680	28	20	8
HK164B	F	0.9712250	31.5230700	0.9669460	0.9618970	0.9179480	0.1600910	0.9790780	0.9755400	0.9453630	0.1252080	3,173,694	1,329,075	1,844,619	1.39	2.15	127428	145531	17678	7142	10536	1.48	3.31	101	131	1651	1625	26	18	8
HK164C	M	0.9767010	32.1093380	0.9722880	0.9651800	0.8947090	0.2058300	0.9799420	0.9752700	0.9290360	0.1713010	3,109,537	1,412,123	1,697,414	1.20	2.15	125158	142490	17312	7704	9608	1.25	3.30	97	124	1704	1673	31	18	8
HK180A	M	0.9766970	33.7336540	0.9725570	0.9675950	0.9191950	0.2583910	0.9797460	0.9754480	0.9385770	0.2388310	3,182,179	1,366,251	1,815,928	1.33	2.15	128333	146779	17729	7462	10267	1.38	3.31	96	154	1839	1811	28	40	11
HK180B	F	0.9712120	34.8553190	0.9672180	0.9638070	0.9496810	0.2885610	0.9788160	0.9755550	0.9620440	0.2517600	3,154,980	1,366,586	1,788,394	1.31	2.15	127470	145377	17682	7485	10197	1.36	3.32	96	150	1816	1799	27	30	6
HK180C	M	0.9767350	34.0695540	0.9725780	0.9676800	0.9201410	0.2762630	0.9796290	0.9748730	0.9345220	0.2263010	3,161,277	1,367,185	1,794,092	1.31	2.15	127433	145991	17760	7527	10233	1.36	3.30	95	151	1812	1785	27	36	10
HK96A	M	0.9765330	29.1882400	0.9716840	0.9614710	0.8666750	0.0969530	0.9796330	0.9737100	0.9128540	0.0916850	3,149,773	1,370,133	1,779,640	1.30	2.15	125703	144492	17320	7349	9971	1.36	3.32	101	138	1564	1531	33	25	9
HK96B	F	0.9708350	26.7097530	0.9659190	0.9578010	0.8529320	0.0365360	0.9783480	0.9737270	0.8822930	0.0251200	3,141,621	1,348,449	1,793,172	1.33	2.15	124998	143271	17493	7301	10192	1.40	3.33	95	141	1403	1377	26	18	8
HK96C	M	0.9764250	28.8411900	0.9715330	0.9641070	0.8621390	0.0874780	0.9795910	0.9735220	0.9058590	0.0725310	3,151,261	1,354,377	1,796,884	1.33	2.15	125709	144328	17511	7271	10240	1.41	3.33	99	150	1525	1492	33	20	11
HK97A	M	0.9761130	31.4372020	0.9718050	0.9642360	0.8907700	0.1745480	0.9791970	0.9740500	0.9279850	0.1619240	3,156,480	1,374,052	1,782,428	1.30	2.15	126500	144721	17659	7580	10079	1.33	3.29	100	136	1705	1672	33	18	11
HK97B	F	0.9707140	26.6072880	0.9659780	0.9587390	0.8541970	0.0345440	0.9782660	0.9736520	0.8736780	0.0227670	3,134,238	1,367,078	1,767,160	1.29	2.15	125177	143632	17370	7442	9928	1.33	3.35	98	131	1425	1396	29	20	7
HK97C	M	0.9759650	26.0086510	0.9705380	0.9635520	0.8107830	0.0335520	0.9790300	0.9695810	0.8589960	0.0256450	3,153,004	1,349,416	1,803,588	1.34	2.15	125008	143889	17675	7437	10238	1.38	3.32	99	136	1370	1344	26	21	8
HK9A	M	0.9763050	29.1478540	0.9695430	0.9437520	0.7748620	0.2011470	0.9797440	0.9707010	0.8976360	0.3913950	3,111,786	1,360,449	1,751,337	1.29	2.15	123662	141750	17495	7390	10105	1.37	3.32	95	139	1435	1408	27	26	10
HK9B	F	0.9710900	30.1195180	0.9665810	0.9605200	0.8929660	0.1343660	0.9786880	0.9748750	0.9146220	0.0924240	3,137,051	1,360,894	1,776,157	1.31	2.15	125221	143969	17383	7388	9995	1.35	3.34	94	133	1590	1566	24	25	8
HK9C	M	0.9763980	28.7427060	0.9716050	0.9611640	0.8552080	0.1005550	0.9793500	0.9719380	0.8823950	0.0630540	3,146,136	1,349,292	1,796,844	1.33	2.15	125527	143955	17356	7448	9908	1.33	3.36	99	137	1550	1521	26	11	11
VH105A	M	0.9768990	35.2993870	0.9728770	0.9684900	0.9261920	0.3347790	0.9804880	0.9769320	0.9447570	0.3108220	3,168,753	1,367,108	1,801,645	1.32	2.15	127752	146505	17675	7378	10297	1.40	3.33	97	142	1905	1868	37	37	13
VH105B	F	0.9712160	35.7900170	0.9674190	0.9641480	0.9525240	0.3364020	0.9794770	0.9764540	0.9467210	0.2805120	3,164,210	1,359,200	1,805,010	1.33	2.15	127072	145421	17447	7408	10039	1.36	3.36	97	131	1887	1863	24	26	11
VH105C	M	0.9765490	34.7282560	0.9725590	0.9680740	0.9242060	0.3069420	0.9801330	0.9766390	0.9406610	0.2451930	3,164,760	1,360,698	1,804,062	1.33	2.15	127419	145651	17533	7402	10131	1.37	3.37	95	140	1855	1824	31	34	14
VH106A	M	0.9770480	32.6897850	0.9724760	0.9665290	0.9115940	0.2102870	0.9788310	0.9727580	0.9238700	0.1694270	3,152,394	1,370,468	1,781,926	1.30	2.15	127057	145459	17423	7328	10095	1.38	3.26	96	136	1720	1690	30	19	8
VH106B	F	0.9714360	35.5017510	0.9674710	0.9641360	0.9520080	0.3204010	0.9794750	0.9783400	0.9647100	0.2557280	3,168,478	1,356,101	1,812,377	1.34	2.15	127970	146198	17444	7291	10153	1.39	3.34	107	150	1889	1862	27	29	12
VH106C	M	0.9767380	36.2468350	0.9728930	0.9688130	0.9291950	0.3870850	0.9804230	0.9776450	0.9504170	0.3923190	3,162,811	1,356,100	1,806,711	1.33	2.14	127621	145744	17278	7300	9978	1.37	3.33	97	136	1925	1898	27	22	10
VH108A	M	0.9769910	35.6378300	0.9730220	0.9686860	0.9269410	0.3516360	0.9808950	0.9780390	0.9512650	0.4015600	3,167,037	1,355,607	1,811,430	1.34	2.15	127934	146134	17526	7423	10103	1.36	3.34	89	119	1812	1781	31	22	8
VH108B	F	0.9710830	35.5512010	0.9669610	0.9626940	0.9354560	0.3549800	0.9798600	0.9777690	0.9688800	0.4854350	3,154,767	1,362,750	1,792,017	1.32	2.15	126796	145390	17451	7373	10078	1.37	3.32	105	125	1779	1746	33	22	11
VH108C	M	0.9771120	34.4773380	0.9729710	0.9683280	0.9233170	0.2912230	0.9808160	0.9774140	0.9430260	0.2489700	3,168,381	1,360,284	1,808,097	1.33	2.15	127888	146374	17599	7242	10357	1.43	3.38	90	120	1786	1760	26	23	10

\*using Picard CollectWgMetrics with minimum base quality and mapping quality of 20

Sum												85,176,079	Sum	3,418,026	3,912,990													
												92,507,095																
Avarace	0.9742684	31.958911	0.9694892	0.9605654	0.8846565	0.1936181	0.9795378	0.9748437	0.9254817	0.1945443		3,154,670			126,594	144,926	17,517					97	136	1,692				
												3,426,189																
												Average of SNVs and Indels per genome																