

Supplementary Table 1. Summary and mapping statistics of 300 Landrace pigs using genotyping by sequencing

sample	Raw Base(bp)	Clean Base(bp)	Effective Rate(%)	Error Rate(%)	Q20(%)	Q30(%)	GC Content(%)	clean reads	mapped reads	mapping rate(%)	average depth(X)	coverage at least 1X(%)	coverage at least 4X(%)	Raw Base(bp)	Clean Base(bp)	Effective Rate(%)	Error Rate(%)	Q20(%)	Q30(%)	GC Content(%)
394811F	784770624	784640160	99.98	0.02	97.33	94.09	43.2	5448890	5167424	94.83	11.66	4.89	2.09	784770624	784640160	99.98	0.02	97.33	94.09	43.2
141731F	639086688	638981280	99.98	0.01	97.47	94.43	43.2	4437370	4209129	94.86	10.39	4.28	1.89	639086688	638981280	99.98	0.01	97.47	94.43	43.2
273171F	900576000	900472608	99.99	0.01	97.54	94.55	40.73	6253282	5934523	94.9	15.23	4.86	1.87	900576000	900472608	99.99	0.01	97.54	94.55	40.73
388441F	873587300	873461088	99.98	0.01	97.55	94.58	42.13	6065702	5754235	94.87	13.19	5.32	2.05	873587300	873461088	99.98	0.01	97.55	94.58	42.13
44111F	703347188	703347188	99.99	0.01	97.52	94.49	41.26	7335496	5030850	94.91	12.1	5.11	1.91	703347188	703347188	99.99	0.01	97.52	94.49	41.26
302581F	650720304	650615040	99.99	0.01	97.54	94.6	41.18	6181600	4287748	94.9	12	3.9	1.71	650720304	650615040	99.99	0.01	97.54	94.6	41.18
394541F	919464768	919346400	99.99	0.01	97.62	94.77	41.76	6384350	6051654	94.79	13.65	5.7	2.06	919464768	919346400	99.99	0.01	97.62	94.77	41.76
395791F	879432768	879299376	99.99	0.01	97.57	94.62	42.03	6106454	5788212	94.79	13.62	5.39	2.03	879432768	879299376	99.99	0.01	97.57	94.62	42.03
85771F	819214848	819121824	99.99	0.02	97.33	94.1	41.69	5688346	5411718	95.14	11.9	6.36	1.95	819214848	819121824	99.99	0.02	97.33	94.1	41.69
241791F	960519744	960393024	99.99	0.01	97.52	94.59	41.94	6699396	6337139	95.02	14.54	5.21	2.09	960519744	960393024	99.99	0.01	97.52	94.59	41.94
385071F	1033847136	1033733952	99.99	0.01	97.47	94.43	41.5	7178708	6809013	94.85	14.7	6.36	2.13	1033847136	1033733952	99.99	0.01	97.47	94.43	41.5
821001F	867119040	867017088	99.99	0.01	97.47	94.48	41.72	6020952	5721617	95.03	13.97	4.59	1.89	867119040	867017088	99.99	0.01	97.47	94.48	41.72
237801F	874737792	874622880	99.99	0.01	97.55	94.62	41.88	6073770	5764986	94.92	13.6	5.03	2.02	874737792	874622880	99.99	0.01	97.55	94.62	41.88
394821F	368931168	368893728	99.99	0.01	97.59	94.62	40.28	2561762	2432792	94.97	8.86	3.23	1.16	368931168	368893728	99.99	0.01	97.59	94.62	40.28
273861F	584554464	584482464	99.99	0.01	97.45	94.35	40.46	4058906	3857866	95.05	10.29	5.25	1.53	584554464	584482464	99.99	0.01	97.45	94.35	40.46
186171F	967085856	966975264	99.99	0.01	97.54	94.53	42.17	6715106	6364678	94.78	12.88	6.53	2.23	967085856	966975264	99.99	0.01	97.54	94.53	42.17
186231F	960881472	960777504	99.99	0.01	97.42	94.31	41.59	6672066	6349312	95.16	12.5	7.54	1.93	960881472	960777504	99.99	0.01	97.42	94.31	41.59
311821F	1030855264	1030722496	99.99	0.01	97.52	94.5	41.7	7296884	6937922	95.08	14.7	6.47	2.17	1030855264	1030722496	99.99	0.01	97.52	94.5	41.7
117411F	1056674060	1056570460	99.99	0.01	97.53	94.36	40.36	7339546	6989789	95.28	14.14	7.14	2.18	1056674060	1056570460	99.99	0.01	97.53	94.36	40.36
230021F	109234240	1092201120	99.99	0.01	97.52	94.56	41.07	5847370	7209148	95.05	15.46	6.56	2.15	109234240	1092201120	99.99	0.01	97.52	94.56	41.07
238521F	983104416	982978848	99.99	0.01	97.45	94.43	41.02	6822422	6489455	95.07	13.89	6.59	2.09	983104416	982978848	99.99	0.01	97.45	94.43	41.02
380551F	1144705536	1144547712	99.99	0.01	97.38	94.36	41.46	7948248	7552264	95.02	15.17	7.08	2.27	1144705536	1144547712	99.99	0.01	97.38	94.36	41.46
234381F	1079827200	1079689536	99.99	0.01	97.53	94.59	41.56	7497844	7133532	95.14	15.11	6.35	2.2	1079827200	1079689536	99.99	0.01	97.53	94.59	41.56
114501F	908301600	908207136	99.99	0.02	97.37	94.12	41.54	6306994	5991637	95	13.78	5.68	2.01	908301600	908207136	99.99	0.02	97.37	94.12	41.54
303141F	866134080	866036160	99.99	0.01	97.5	94.45	42.33	6011440	5707343	94.9	12.98	5.29	2.06	866134080	866036160	99.99	0.01	97.5	94.45	42.33
119771F	963784224	963665568	99.99	0.01	97.65	94.48	42.48	6692122	6345491	94.82	13.82	5.44	2.19	963784224	963665568	99.99	0.01	97.65	94.48	42.48
267091F	906204096	906101856	99.99	0.02	97.5	94.71	42.03	6292374	5974889	94.95	12.76	6.11	2.12	906204096	906101856	99.99	0.02	97.5	94.71	42.03
117071F	990762912	990634464	99.99	0.01	97.48	94.53	42.09	6879406	6529128	94.91	14.51	5.31	2.17	990762912	990634464	99.99	0.01	97.48	94.53	42.09
969151F	970972704	970840224	99.99	0.01	97.49	94.54	41.94	6741946	6399555	94.92	14.38	5.21	2.15	970972704	970840224	99.99	0.01	97.49	94.54	41.94
272661F	941897664	941798880	99.99	0.01	97.56	94.62	42.41	6540270	6208139	94.92	14.38	4.96	2.1	941897664	941798880	99.99	0.01	97.56	94.62	42.41
80601F	1075756320	1075620096	99.99	0.01	97.56	94.65	42.03	7469584	7092850	94.96	15.31	5.54	2.23	1075756320	1075620096	99.99	0.01	97.56	94.65	42.03
301471F	971304480	971194752	99.99	0.01	97.46	94.35	42.05	6744088	6403993	94.95	13.86	5.78	2.14	971304480	971194752	99.99	0.01	97.46	94.35	42.05
308851F	604573920	604470720	99.98	0.01	97.6	94.35	42.45	1197710	3978343	94.77	7.87	5.96	2.27	604573920	604470720	99.98	0.01	97.6	94.35	42.45
377891F	1306409472	1306254240	99.99	0.01	97.6	94.69	41.35	9071210	8604438	94.85	18.82	5.66	2.27	1306409472	1306254240	99.99	0.01	97.6	94.69	41.35
367181F	992777472	992661120	99.99	0.01	97.46	94.38	41.82	6893480	6536201	94.82	14.95	5.36	2.1	992777472	992661120	99.99	0.01	97.46	94.38	41.82
181181F	877387104	877301856	99.99	0.02	97.05	93.34	41.97	6902374	5779353	94.86	13.67	5.18	2.2	877387104	877301856	99.99	0.02	97.05	93.34	41.97
393681F	944925984	944819424	99.99	0.01	97.59	94.66	42.26	6561246	6223085	94.85	13.49	5.86	2.14	944925984	944819424	99.99	0.01	97.59	94.66	42.26
936331F	783535680	783426560	99.99	0.01	97.53	94.53	42.42	5440574	5158964	94.82	11.51	6.11	2.01	783535680	783426560	99.99	0.01	97.53	94.53	42.42
181151F	844853760	844726752	99.98	0.01	97.26	94.06	40.53	5866158	5563815	94.85	12.34	5.73	2.05	844853760	844726752	99.98	0.01	97.26	94.06	40.53
395771F	1130127552	1129938624	99.98	0.01	97.25	94.05	42.4	7846796	7444051	94.87	13.69	6.33	2.59	1130127552	1129938624	99.98	0.01	97.25	94.05	42.4
248831F	987804576	987698376	99.98	0.01	97.25	94.02	41.7	6858604	6509763	94.91	11.81	7.27	2.42	987804576	987698376	99.98	0.01	97.25	94.02	41.7
379531F	1027269472	1027259176	99.98	0.01	97.33	94.22	41.17	7448554	7063552	94.83	13.98	5.86	2.42	1027269472	1027259176	99.98	0.01	97.33	94.22	41.17
200801F	1167024672	1166842368	99.98	0.01	97.39	94.34	41.41	8103072	7693496	94.95	13.52	7.39	2.6	1167024672	1166842368	99.98	0.01	97.39	94.34	41.41
371661F	1027794240	1027634976	99.98	0.01	97.31	94.17	42.1	7136354	6765193	94.8	12.55	6.35	2.51	1027794240	1027634976	99.98	0.01	97.31	94.17	42.1
385971F	984148416	9840402400	99.99	0.02	97.13	93.72	41.45	6833350	6493134	95.02	11.92	7.48	2.35	984148416	9840402400	99.99	0.02	97.13	93.72	41.45
204861F	1080604080	1080413856	99.98	0.01	97.22	94.09	41.63	7328378	7126338	94.98	13.34	6.35	2.52	1080604080	1080413856	99.98	0.01	97.22	94.09	41.63
388511F	1054534464	1054367136	99.98	0.01	97.17	93.91	41.41	7321994	6956902	95.01	13.82	6.74	2.45	1054534464	1054367136	99.98	0.01	97.17	93.91	41.41
946211F	1091386528	1091420352	99.98	0.01	97.25	94.08	41.77	7579308	7196169	94.94	13.8	6.88	2.51	1091386528	1091420352	99.98	0.01	97.25	94.08	41.77
940021F	1154064384	1153888128	99.98	0.01	97.29	94.17	41.77	8013112	7601059	94.86	13.72	6.51	2.63	1154064384	1153888128	99.98	0.01	97.29	94.17	41.77
393851F	1076429088	1076265792	99.98	0.01	97.39	94.28	40.69	7474068	7094046	94.92	14.51	6.11	2.31	1076429088	1076265792	99.98	0.01	97.39	94.28	40.69
186281F	940129056	94004064	99.99	0.01	97.17	93.86	40.66	6527806	6196299	94.92	12.2	6.83	2.22	940129056	94004064	99.99	0.01	97.17	93.86	40.66
269731F	894760128	894632256	99.99	0.01	97.26	94.03	41.98	6212724	5899972	94.97	11.38	6.16	2.35	894760128	89463					

89316LF	538490592	538447392	99.99	0.01	97.15	93.56	44.33	3739218	3546700	94.85	9.71	3.5	1.73	538490592	538447392	99.99	0.01	97.15	93.56	44.33
84516LF	650038752	649981152	99.99	0.01	97.16	93.58	44.35	4513758	4279203	94.8	10.85	3.77	1.91	650038752	649981152	99.99	0.01	97.16	93.58	44.35
3572LF	601982784	601947648	99.99	0.02	97.23	93.56	43.2	4180192	3960971	1.76	94.76	10.73	3.73	601982784	601947648	99.99	0.02	97.23	93.56	43.2
85705LF	560807424	560778624	99.99	0.02	97.09	93.31	43.34	3894296	3689019	94.73	10.04	3.7	1.73	560807424	560778624	99.99	0.02	97.09	93.31	43.34
3574LF	605984544	605951424	99.99	0.02	97.15	93.34	44.45	4207996	3987205	94.75	10.41	3.72	1.83	605984544	605951424	99.99	0.02	97.15	93.34	44.45
1101LF	466117632	466092576	99.99	0.02	96.99	93.09	44.3	3236574	3069554	94.83	8.84	3.43	1.58	466117632	466092576	99.99	0.02	96.99	93.09	44.3
73175LF	550224288	550185120	99.99	0.02	97.16	93.47	44.53	3820730	3621576	94.79	9.99	3.48	1.73	550224288	550185120	99.99	0.02	97.16	93.47	44.53
96540LF	683511504	683486208	99.99	0.01	97.17	93.62	44.42	4746432	4498720	94.78	11.38	3.69	1.95	683511504	683486208	99.99	0.01	97.17	93.62	44.42
5116LF	371099232	371069256	99.99	0.01	97.25	93.84	44.3	2973874	2437943	94.81	8.45	3.04	1.26	371099232	371069256	99.99	0.01	97.25	93.84	44.3
84847LF	732083456	732004704	99.99	0.01	97.14	93.5	43.98	5083366	4818134	94.74	11.74	3.85	2.03	732083456	732004704	99.99	0.01	97.14	93.5	43.98
87325LF	513741024	513684864	99.99	0.01	97.06	93.47	44.42	3567256	3382389	94.82	9.47	3.44	1.88	513741024	513684864	99.99	0.01	97.06	93.47	44.42
7928LF	607666752	607620096	99.99	0.01	97.16	93.61	44.5	4219584	4000309	94.8	10.43	3.68	1.84	607666752	607620096	99.99	0.01	97.16	93.61	44.5
86138LF	646653312	646620192	99.99	0.02	96.84	92.66	44.02	4490418	4250827	94.66	10.9	3.69	1.9	646653312	646620192	99.99	0.02	96.84	92.66	44.02
87362LF	371141856	371124576	100	0.02	96.38	91.51	44.33	2577254	2438980	94.63	8.01	3.12	1.32	371141856	371124576	100	0.02	96.38	91.51	44.33
56237LF	645639552	645584832	99.99	0.01	97.12	93.47	44.25	4483228	4251809	94.84	10.91	3.64	1.91	645639552	645584832	99.99	0.01	97.12	93.47	44.25
99419LF	497479392	497441376	99.99	0.02	97.11	93.45	44.29	3454544	3276188	94.84	9.15	3.58	1.64	497479392	497441376	99.99	0.02	97.11	93.45	44.29
9421LF	1144566144	1144513152	100	0.03	96.41	91.46	42.81	7948008	7546437	94.95	14.26	5.61	2.61	1144566144	1144513152	100	0.03	96.41	91.46	42.81
90171LF	1233823392	1233762912	100	0.03	95.98	90.43	42.72	8567798	8121266	94.79	15.46	5.44	2.63	1233823392	1233762912	100	0.03	95.98	90.43	42.72
91676LF	1583931744	1583851392	99.99	0.03	96.44	91.69	42.67	10998968	10439054	94.91	18.02	6.08	2.94	1583931744	1583851392	99.99	0.03	96.44	91.69	42.67
90288LF	1307240928	1307199088	100	0.03	96.25	91.2	42.5	9077632	8611483	94.86	16.03	5.64	2.7	1307240928	1307199088	100	0.03	96.25	91.2	42.5
78125LF	1466810208	1466736192	99.99	0.03	96.39	91.5	42.59	1018568	9663313	94.87	17.13	5.97	2.85	1466810208	1466736192	99.99	0.03	96.39	91.5	42.59
87423LF	1466975904	1466908776	99.99	0.03	96.37	91.44	42.45	10145188	9629170	94.89	17.43	5.71	2.81	1466975904	1466908776	99.99	0.03	96.37	91.44	42.45
87508LF	1350439840	1350339840	100	0.03	96.37	91.53	41.41	937360	8890294	94.8	17.01	6.56	3.03	1350439840	1350339840	100	0.03	96.37	91.53	41.41
92141LF	950274432	950227488	100	0.03	96.21	91.02	41.41	658802	6254257	94.78	13.38	5	2.28	950274432	950227488	100	0.03	96.21	91.02	41.41
3624LF	1206774720	1206730368	100	0.03	96.25	91.02	42.7	8390072	7950737	94.88	14.97	5.59	2.64	1206774720	1206730368	100	0.03	96.25	91.02	42.7
20323LF	963668448	963625536	100	0.03	96.14	90.81	42.56	6691844	6351587	94.92	12.53	5.83	2.4	963668448	963625536	100	0.03	96.14	90.81	42.56
19951LF	1154575872	1154519712	100	0.03	96.32	91.28	42.67	8017498	7607326	94.88	14.7	5.32	2.58	1154575872	1154519712	100	0.03	96.32	91.28	42.67
38310LF	1243121472	1243050048	99.99	0.03	96.37	91.54	42.58	8632292	8193776	94.92	15.59	5.34	2.65	1243121472	1243050048	99.99	0.03	96.37	91.54	42.58
39599LF	1185102432	118503208	99.99	0.03	96.39	91.5	42.33	8229432	7796875	94.74	15.22	5.2	2.58	1185102432	118503208	99.99	0.03	96.39	91.5	42.33
18595LF	1269319680	1269260352	100	0.03	96.31	91.34	42.25	8814308	8362315	94.87	16.04	5.34	2.63	1269319680	1269260352	100	0.03	96.31	91.34	42.25
37739LF	1475030592	1474949664	99.99	0.03	96.28	91.41	42.58	10242708	9712870	94.83	17.67	5.77	2.79	1475030592	1474949664	99.99	0.03	96.28	91.41	42.58
38044LF	1386548064	1386463680	99.99	0.03	96.42	91.58	42.69	9628220	9131913	94.85	16.67	5.71	2.76	1386548064	1386463680	99.99	0.03	96.42	91.58	42.69
39578LF	1169218656	1169167680	100	0.03	95.98	90.39	42.5	8119220	7698167	94.81	14.98	5.32	2.57	1169218656	1169167680	100	0.03	95.98	90.39	42.5
39459LF	1261036800	1260986112	99.99	0.03	96.22	91.1	42.88	8756848	8298767	94.77	15.59	5.6	2.66	1261036800	1260986112	99.99	0.03	96.22	91.1	42.88
19953LF	1427099760	1426934592	99.99	0.03	96.49	91.69	42.55	9909288	9395667	94.82	16.55	6.17	2.84	1427099760	1426934592	99.99	0.03	96.49	91.69	42.55
87508LF	781130756	781159776	99.99	0.02	96.4	91.93	41.95	5428804	5157829	95.04	12.28	4.22	2.04	781130756	781159776	99.99	0.02	96.4	91.93	41.95
14309LF	798382656	798320160	99.99	0.02	96.41	92.1	43.19	5343890	5278306	95.21	11.76	4.31	2.19	798382656	798320160	99.99	0.02	96.41	92.1	43.19
38327LF	744348512	744313536	99.99	0.02	96.31	91.83	43.3	5168844	4913083	94.83	11.17	4.24	2.12	744348512	744313536	99.99	0.02	96.31	91.83	43.3
36982LF	754611264	754552224	99.99	0.02	96.48	92.23	43.03	5239946	4975576	94.95	11.48	4.17	2.11	754611264	754552224	99.99	0.02	96.48	92.23	43.03
37070LF	686783232	686718720	99.99	0.02	96.55	92.41	42.96	4768880	4537472	95.15	10.67	4.12	2.03	686783232	686718720	99.99	0.02	96.55	92.41	42.96
18863LF	600555744	600511968	99.99	0.02	96.44	92.1	43.5	4170222	3967496	95.14	9.76	4.01	1.89	600555744	600511968	99.99	0.02	96.44	92.1	43.5
20074LF	708905092	708912576	99.99	0.02	96	91.09	43.08	4923004	4682273	95.11	10.86	4.06	1.99	708905092	708912576	99.99	0.02	96	91.09	43.08
37139LF	927696672	927615744	99.99	0.02	96.5	92.39	43.56	6441776	6125024	95.08	12.63	4.82	2.36	927696672	927615744	99.99	0.02	96.5	92.39	43.56
37948LF	929121696	929049984	99.99	0.02	96.33	91.91	43.36	6451736	6131133	95.03	12.79	4.74	2.34	929121696	929049984	99.99	0.02	96.33	91.91	43.36
14211LF	1025184960	1025100576	99.99	0.02	96.44	92.19	43.48	7118754	6767085	95.06	13.41	5.11	2.47	1025184960	1025100576	99.99	0.02	96.44	92.19	43.48
38419LF	891094176	891024192	99.99	0.02	96.47	92.22	43.49	6187668	5877063	94.98	11.93	5.05	2.35	891094176	891024192	99.99	0.02	96.47	92.22	43.49
39598LF	936844992	936794016	99.99	0.02	96.57	92.2	42.11	6505514	6173496	94.9	13.47	4.61	2.25	936844992	936794016	99.99	0.02	96.57	92.2	42.11
13503LF	583522272	583489152	99.99	0.02	96.42	91.94	42.61	4052008	3847819	94.96	9.82	3.94	1.82	583522272	583489152	99.99	0.02	96.42	91.94	42.61
94171LF	632443368	632443368	99.99	0.02	96.38	91.78	43.59	4391972	4169492	94.83	10.06	4.16	1.94	632443368	632443368	99.99	0.02	96.38	91.78	43.59
89041LF	609701184	609646608	99.99	0.02	96.28	91.59	43.45	4237782	4020795	94.97	9.89	3.99	1.81	609701184	609646608	99.99	0.02	96.28	91.59	43.45
42921LF	583160832	583117632	99.99	0.02	96.49	92.14	43.78	4049428	3848485	95.04	9.53	4.24	1.83	583160832	583117632	99.99	0.02	96.49	92.14	43.78
94215LF	626201856	626141088	99.99	0.02	96.44	92.25	43.65	438202	4134560	95.09	9.93	4.2	1.93	626201856	626141088	99.99	0.02	96.44	92.25	43.65
89020LF	663302592	663245856	99.99	0.02	96.53	92.31	43.58	4605874	4375913	95.01	10.42	4.18	1.98	663302592	663245856	99.99	0.02	96.53	92.31	43.58
35711LF	725135040	725068224	99.99	0.02	96.42	92.08	43.36	5035196												

822351F	683303040	683142624	99.98	0.03	95.88	91.13	42.42	4744046	4492592	94.7	10.18	4.28	2.1	683303040	683142624	99.98	0.03	95.88	91.13	42.42
879551F	816653664	816431328	99.97	0.02	95.87	91.23	42.98	5696662	5375679	94.81	10.94	4.99	2.33	816653664	816431328	99.97	0.02	95.87	91.23	42.98
3481F	805906368	805693824	99.97	0.02	96.02	91.43	42.98	5595096	5303056	94.78	10.4	5.32	2.36	805906368	805693824	99.97	0.02	96.02	91.43	42.98
55341F	751529088	751377312	99.98	0.03	95.73	90.55	42.35	5217898	4943963	94.75	10.29	4.88	2.25	751529088	751377312	99.98	0.03	95.73	90.55	42.35
913311F	783789984	783616896	99.98	0.03	95.89	91.03	42.75	5417784	5155867	94.75	10.29	4.99	2.3	783789984	783616896	99.98	0.03	95.89	91.03	42.75
382401F	823383360	823182624	99.98	0.03	96.13	91.56	42.8	5716546	5410577	94.65	10.69	5.29	2.36	823383360	823182624	99.98	0.03	96.13	91.56	42.8
141481F	673701408	673581312	99.98	0.03	95.96	91.06	42.35	4677648	4433331	94.78	9.99	4.33	2.1	673701408	673581312	99.98	0.03	95.96	91.06	42.35
103291F	630599520	630433344	99.97	0.02	95.96	91.42	42.77	4419976	4188842	94.77	9.51	4.4	2.04	630599520	630433344	99.97	0.02	95.96	91.42	42.77
108011F	615638464	615484720	99.98	0.02	95.97	91.38	42.76	4348722	4054648	94.86	9.4	4.7	2.02	615638464	615484720	99.98	0.02	95.97	91.38	42.76
796831F	608804064	608663520	99.98	0.03	96.04	91.41	42.77	4228300	4005663	94.77	9.34	4.21	1.99	608804064	608663520	99.98	0.03	96.04	91.41	42.77
845501F	592964352	592813152	99.97	0.03	96.09	91.57	42.68	4116758	3899695	94.73	9.16	4.2	1.96	592964352	592813152	99.97	0.03	96.09	91.57	42.68
730211F	523389312	523276704	99.98	0.03	95.76	90.67	42.76	3633866	3443174	94.75	8.48	4.02	1.83	523389312	523276704	99.98	0.03	95.76	90.67	42.76
856961F	669646080	669526848	99.98	0.03	95.71	90.54	42.16	4649492	4404508	94.73	10.04	4.26	2.08	669646080	669526848	99.98	0.03	95.71	90.54	42.16
863251F	868118688	867916800	99.98	0.03	96.07	91.42	42.35	6027200	5709750	94.73	11.48	5.23	2.36	868118688	867916800	99.98	0.03	96.07	91.42	42.35
35731F	819642816	819472896	99.98	0.03	95.94	91.1	42.47	5690784	5390881	94.73	10.73	5.08	2.37	819642816	819472896	99.98	0.03	95.94	91.1	42.47
602651F	701539776	701448192	99.99	0.03	95.07	89.04	42.56	4807617	4607617	94.59	10.06	4.53	2.16	701539776	701448192	99.99	0.03	95.07	89.04	42.56
1151F	90809856	908069904	99.98	0.03	95.94	91.28	42.6	6310416	5976805	94.71	11.49	5.45	2.46	90809856	908069904	99.98	0.03	95.94	91.28	42.6
833141F	915764832	915541344	99.98	0.03	95.9	91.13	42.81	6357926	6025926	94.78	11.66	5.53	2.44	915764832	915541344	99.98	0.03	95.9	91.13	42.81
37131F	821984832	821966672	100	0.03	96.05	91.42	41.77	5708104	5407952	94.74	12.63	4.62	2.05	821984832	821966672	100	0.03	96.05	91.42	41.77
821341F	994225248	994204512	100	0.03	96.06	91.49	42.84	6904198	6549166	94.86	12.84	5.81	2.19	994225248	994204512	100	0.03	96.06	91.49	42.84
19111F	808394400	808379424	100	0.03	95.92	91.19	43.28	5613746	5319963	94.77	11.51	4.89	2.18	808394400	808379424	100	0.03	95.92	91.19	43.28
572531F	831100320	831080160	100	0.02	96.13	91.62	42.72	5717390	5468832	94.76	11.95	4.79	2.19	831100320	831080160	100	0.02	96.13	91.62	42.72
35181F	794048356	794048356	100	0.02	96.07	91.77	42.71	5312224	5227641	94.77	11.41	4.74	2.15	794048356	794048356	100	0.02	96.07	91.77	42.71
35661F	669829536	669815136	100	0.02	96.07	91.45	43.33	4651494	4411932	94.85	9.96	4.81	2.08	669829536	669815136	100	0.02	96.07	91.45	43.33
820341F	694479456	694465056	100	0.03	95.5	90.26	43.37	4826574	4596605	94.75	10.38	4.75	2.02	694479456	694465056	100	0.03	95.5	90.26	43.37
447361F	901933344	901910880	100	0.02	96.25	91.97	43.1	6262370	5941328	94.86	11.08	5.9	2.46	901933344	901910880	100	0.02	96.25	91.97	43.1
895101F	915857512	915854976	100	0.02	96.11	91.67	43.26	6360104	6029884	94.81	11.97	5.43	2.38	915857512	915854976	100	0.02	96.11	91.67	43.26
35701F	997543872	997522272	100	0.02	96.16	91.72	43.02	6922738	6665282	94.77	11.86	6.21	2.56	997543872	997522272	100	0.02	96.16	91.72	43.02
912111F	828045792	828027936	100	0.02	96.06	91.5	43.14	5750194	5447137	94.73	10.67	5.62	2.32	828045792	828027936	100	0.02	96.06	91.5	43.14
858211F	768713184	768700512	100	0.03	96.13	91.47	42.16	5338198	5055128	94.7	11.35	5	2.06	768713184	768700512	100	0.03	96.13	91.47	42.16
901671F	675831456	675816768	100	0.03	95.81	90.87	42.81	4693172	4451249	94.85	10.44	4.38	2.07	675831456	675816768	100	0.03	95.81	90.87	42.81
738011F	677632032	677617920	100	0.02	96.17	91.86	42.95	4705680	4461790	94.82	10.18	4.53	2.03	677632032	677617920	100	0.02	96.17	91.86	42.95
928541F	678478464	678462624	100	0.02	96.16	91.8	42.94	4711546	4470640	94.89	10.14	4.61	2.04	678478464	678462624	100	0.02	96.16	91.8	42.94
735661F	743930208	743915232	100	0.03	96.09	91.57	43.38	5166078	4900288	94.87	10.95	4.67	2.01	743930208	743915232	100	0.03	96.09	91.57	43.38
896811F	810684288	810669984	100	0.02	96.1	91.7	43.11	5629590	5337843	94.85	11.63	4.88	2.2	810684288	810669984	100	0.02	96.1	91.7	43.11
730421F	72780208	727807104	100	0.02	95.66	90.56	43.33	5054216	4791263	94.8	10.87	4.51	2.08	72780208	727807104	100	0.02	95.66	90.56	43.33
901851F	734685984	734675616	100	0.03	95.5	90.27	42.57	5101914	4837090	94.81	11.25	4.14	2.08	734685984	734675616	100	0.03	95.5	90.27	42.57
572081F	980216352	980191296	100	0.03	96.06	91.51	42.66	6806884	6450391	94.76	11.13	4.8	2.1	980216352	980191296	100	0.03	96.06	91.51	42.66
544311F	929088288	929070720	100	0.03	95.81	90.96	43.05	6451880	6115816	94.79	12.09	5.35	2.4	929088288	929070720	100	0.03	95.81	90.96	43.05
936231F	835388064	835378272	100	0.03	94.75	88.51	43.2	5801238	5493162	94.69	11.57	4.98	2.25	835388064	835378272	100	0.03	94.75	88.51	43.2
679901F	962959680	962940096	100	0.02	96.05	91.53	42.9	6687084	6337027	94.77	12.15	5.78	2.45	962959680	962940096	100	0.02	96.05	91.53	42.9
508691F	836344224	836325504	100	0.02	96.07	91.5	42.84	5807816	5507936	94.84	10.76	5.96	2.29	836344224	836325504	100	0.02	96.07	91.5	42.84
735681F	1043585856	1043457408	99.99	0.01	97.96	95.5	42.17	7246232	6882610	94.98	12.72	6.19	2.54	1043585856	1043457408	99.99	0.01	97.96	95.5	42.17
80761F	694539072	69447328	99.98	0.04	94.27	87.65	43.02	4822412	4557429	94.51	10.06	5.06	2.03	694539072	69447328	99.98	0.04	94.27	87.65	43.02
55681F	810856612	810726048	99.98	0.04	94.05	87.16	43.25	5630042	5320704	94.51	11.64	4.76	2.17	810856612	810726048	99.98	0.04	94.05	87.16	43.25
730201F	823874400	823744296	99.98	0.04	94.23	87.62	42.3	5720434	5411602	94.6	12.41	4.6	2.12	823874400	823744296	99.98	0.04	94.23	87.62	42.3
965441F	78038096	780220224	99.98	0.04	94.36	87.93	42.37	5418196	5125689	94.6	11.74	4.47	2.09	78038096	780220224	99.98	0.04	94.36	87.93	42.37
904661F	831099744	830959776	99.98	0.04	94.2	87.44	43.33	5770554	5458006	94.58	11.43	5.16	2.23	831099744	830959776	99.98	0.04	94.2	87.44	43.33
848761F	658940544	658847908	99.99	0.01	93.48	85.95	42.02	4575332	4328153	94.6	9.67	5.23	1.96	658940544	658847908	99.99	0.01	93.48	85.95	42.02
554321F	78446336	784309248	99.98	0.04	94.38	89.05	42.8	5446592	5155993	94.66	11.51	4.48	2.15	78446336	784309248	99.98	0.04	94.38	89.05	42.8
819481F	798451776	79821600	99.98	0.04	94.12	87.44	42.86	5543900	5232668	94.58	11.28	5.2	2.14	798451776	79821600	99.98	0.04	94.12	87.44	42.86
78041F	756593568	756469152	99.98	0.04	94.27	87.7	43	5253258	4971071	94.63	11.18	4.54	2.11	756593568	756469152	99.98	0.04	94.27	87.7	43
848981F	802603584	802475136	99.98	0.04	94.06	87.31	43.18	5527444	5266437	94.5	11.52	4.7	2.17	802603584	802475136	99.98	0.04	94.06	87.31	43.18
600471F	699114816	699015168	99.99	0.04	94	87.1	41.48	4854272	4589813	94.55	11.44	4.38	1.87	699114816	699015168	99.99	0.04			

10942LF	703250496	703047456	99.97	0.01	97.31	94.25	41.81	4882274	4643251	95.1	9.92	4.86	2.16	703250496	703047456	99.97	0.01	97.31	94.25	41.81
19082LF	751876128	751678848	99.97	0.01	97.4	94.38	42.13	5219992	4958477	94.99	10.5	4.72	2.25	751876128	751678848	99.97	0.01	97.4	94.38	42.13
27334LF	682809120	682688448	99.98	0.02	97.13	93.65	41.64	4740892	4506626	95.06	9.87	4.86	2.09	682809120	682688448	99.98	0.02	97.13	93.65	41.64
78140LF	1772431488	1772405280	100	0.02	96.69	92.63	41.38	12308370	11655037	94.69	20.73	7.3	2.78	1772431488	1772405280	100	0.02	96.69	92.63	41.38
29789LF	1488945600	1488919680	100	0.01	96.81	92.92	42.12	10339720	9795661	94.74	18.98	5.73	2.62	1488945600	1488919680	100	0.01	96.81	92.92	42.12
39309LF	1247731488	1247710176	100	0.01	96.67	92.73	43.06	8664654	8204280	94.69	15.69	5.62	2.61	1247731488	1247710176	100	0.01	96.67	92.73	43.06
89317LF	608078016	608067936	100	0.01	96.89	93.03	43.83	4222694	3995431	94.62	9.42	4.79	1.86	608078016	608067936	100	0.01	96.89	93.03	43.83
345LF	670083840	669964032	99.98	0.01	97.46	94.51	41.15	4652528	4420229	95.01	10.9	4.01	1.95	670083840	669964032	99.98	0.01	97.46	94.51	41.15
54851LF	801618336	801487872	99.98	0.01	97.62	94.8	40.88	5565888	5284319	94.94	12.22	4.98	2.02	801618336	801487872	99.98	0.01	97.62	94.8	40.88
3528LF	740827296	740798784	100	0.03	95.97	90.46	42.05	5144436	4885765	94.97	10.05	5.9	2.08	740827296	740798784	100	0.03	95.97	90.46	42.05
1336LF	857028096	856989504	100	0.03	96.41	91.6	41.47	5951316	5648356	94.91	11.21	6.13	2.23	857028096	856989504	100	0.03	96.41	91.6	41.47
26705LF	541579104	541558944	100	0.03	96.5	91.8	41.83	3760826	3568512	94.89	8.9	4.18	1.8	541579104	541558944	100	0.03	96.5	91.8	41.83
3520LF	869394240	869355360	100	0.03	96.47	91.67	42.25	6037190	5725559	94.84	11.75	5.5	2.27	869394240	869355360	100	0.03	96.47	91.67	42.25
89314LF	898977888	898939008	100	0.03	96.38	91.51	42	6242632	5924269	94.9	12.82	4.96	2.23	898977888	898939008	100	0.03	96.38	91.51	42
95477LF	1129445856	1129133376	99.97	0.02	97.16	93.79	40.26	7841204	7454622	95.07	13.28	6.93	2.58	1129445856	1129133376	99.97	0.02	97.16	93.79	40.26
94283LF	1018514304	1018213344	99.97	0.02	97.08	93.66	42.08	7070926	6715861	94.98	12.12	5.7	2.68	1018514304	1018213344	99.97	0.02	97.08	93.66	42.08
99897LF	1138447296	1138119840	99.97	0.02	96.97	93.47	41.7	7903610	7512874	95.06	12.88	6.46	2.78	1138447296	1138119840	99.97	0.02	96.97	93.47	41.7
93487LF	1284552576	1284139296	99.97	0.01	97.16	93.9	41.55	8917634	8460745	94.88	13.99	6.74	2.91	1284552576	1284139296	99.97	0.01	97.16	93.9	41.55
9829LF	1278286848	1277844480	99.97	0.01	97.17	94.06	41.51	8873920	8442652	95.14	14.44	6.09	2.89	1278286848	1277844480	99.97	0.01	97.17	94.06	41.51
89647LF	1312146144	1311711552	99.97	0.01	97.22	94.08	41.27	9109108	8660902	95.08	14.94	5.99	2.89	1312146144	1311711552	99.97	0.01	97.22	94.08	41.27
8579LF	1367140320	1366682688	99.97	0.01	97.18	93.98	41.08	9490852	9020676	95.05	14.31	7.41	2.99	1367140320	1366682688	99.97	0.01	97.18	93.98	41.08
84912LF	1385182368	1384722720	99.97	0.01	97.16	94.03	41.44	9616130	9156503	95.22	13.89	7.81	3.09	1385182368	1384722720	99.97	0.01	97.16	94.03	41.44
84455LF	1394716032	1394231616	99.97	0.01	97.25	94.13	41.51	9682164	9207278	95.1	14.56	7.26	3.04	1394716032	1394231616	99.97	0.01	97.25	94.13	41.51
8444LF	1304020512	1303652160	99.97	0.02	96.91	93.25	41.05	9053140	8609675	95.1	14.22	7.09	2.88	1304020512	1303652160	99.97	0.02	96.91	93.25	41.05
81846LF	1217259648	1216877760	99.97	0.02	97.11	93.72	41.86	8450540	8030075	95.02	13.12	6.98	2.9	1217259648	1216877760	99.97	0.02	97.11	93.72	41.86
8155LF	1361986560	1361541600	99.97	0.01	97.31	94.2	41.89	9455150	8978910	94.96	14.38	6.78	3.05	1361986560	1361541600	99.97	0.01	97.31	94.2	41.89
58277LF	1426721472	1426316544	99.97	0.02	97.02	93.53	41.67	9904976	9408576	94.99	16.07	5.9	2.96	1426721472	1426316544	99.97	0.02	97.02	93.53	41.67
38722LF	1321848000	1321408512	99.97	0.01	97.24	94.16	41.65	9176448	8721004	95.04	14.23	6.63	2.99	1321848000	1321408512	99.97	0.01	97.24	94.16	41.65
18488LF	1283112864	1282656384	99.96	0.01	97.23	94.16	41.61	8907336	8461768	95	14.31	6.19	2.91	1283112864	1282656384	99.96	0.01	97.23	94.16	41.61
28312LF	1252004256	1251602208	99.97	0.01	97.22	94.05	41.95	8691682	8257806	95.01	13.82	6.42	2.91	1252004256	1251602208	99.97	0.01	97.22	94.05	41.95
28303LF	111069696	1110325248	99.97	0.01	97.19	94.03	41.7	7710592	7328366	95.04	13.12	5.75	2.74	111069696	1110325248	99.97	0.01	97.19	94.03	41.7
28087LF	1122635232	1122302880	99.97	0.02	97.01	93.53	41.91	7793770	7400034	94.95	13.06	5.93	2.76	1122635232	1122302880	99.97	0.02	97.01	93.53	41.91
27433LF	1059070464	1058771232	99.97	0.02	96.83	93.09	41.29	7352578	6990102	95.07	12.82	5.76	2.63	1059070464	1058771232	99.97	0.02	96.83	93.09	41.29
27382LF	1141960896	1141585920	99.97	0.01	97.25	94.11	41.03	7927680	7524259	94.91	13.74	5.7	2.69	1141960896	1141585920	99.97	0.01	97.25	94.11	41.03
27372LF	1030378464	1030070304	99.97	0.02	97.04	93.62	41.79	7153206	6799493	95.05	12.48	5.54	2.66	1030378464	1030070304	99.97	0.02	97.04	93.62	41.79
27318LF	807406272	807220224	99.98	0.02	96.22	91.69	41.15	5605696	5325770	95.01	10.71	5.28	2.31	807406272	807220224	99.98	0.02	96.22	91.69	41.15
27288LF	1014461856	1014135264	99.97	0.01	97.17	94	41.22	7042606	6696484	95.09	12.19	5.94	2.61	1014461856	1014135264	99.97	0.01	97.17	94	41.22
26899LF	1115894592	1115523936	99.97	0.01	97.16	93.94	41.53	7746894	7365198	95.08	13.13	5.95	2.72	1115894592	1115523936	99.97	0.01	97.16	93.94	41.53
26854LF	574796448	574782336	100	0.02	96.55	92.47	39.79	3991544	3788188	94.91	9.07	4.67	1.78	574796448	574782336	100	0.02	96.55	92.47	39.79
25985LF	793771488	793745568	100	0.02	96.51	92.5	41.42	5512122	5239522	95.05	9.4	5.49	2.57	793771488	793745568	100	0.02	96.51	92.5	41.42