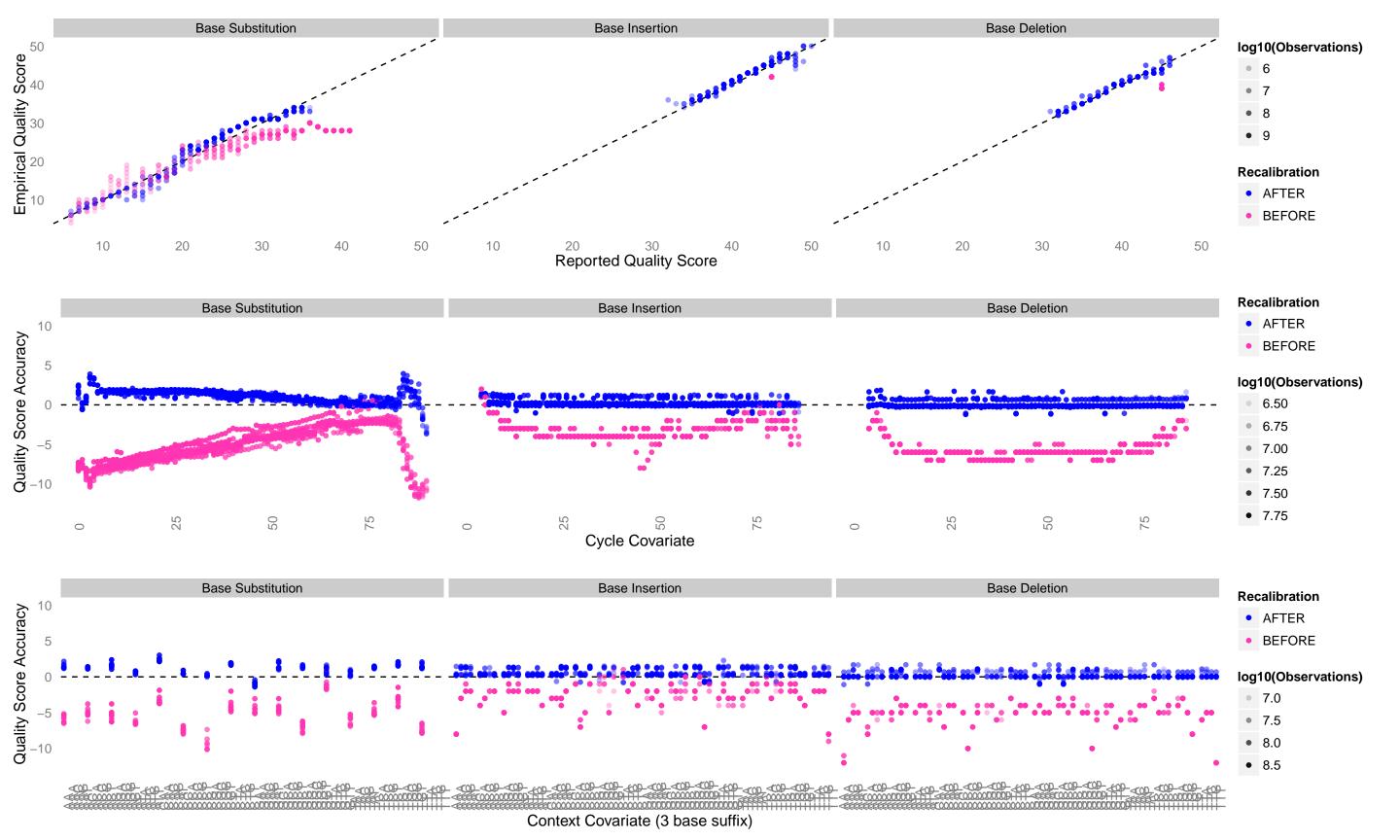
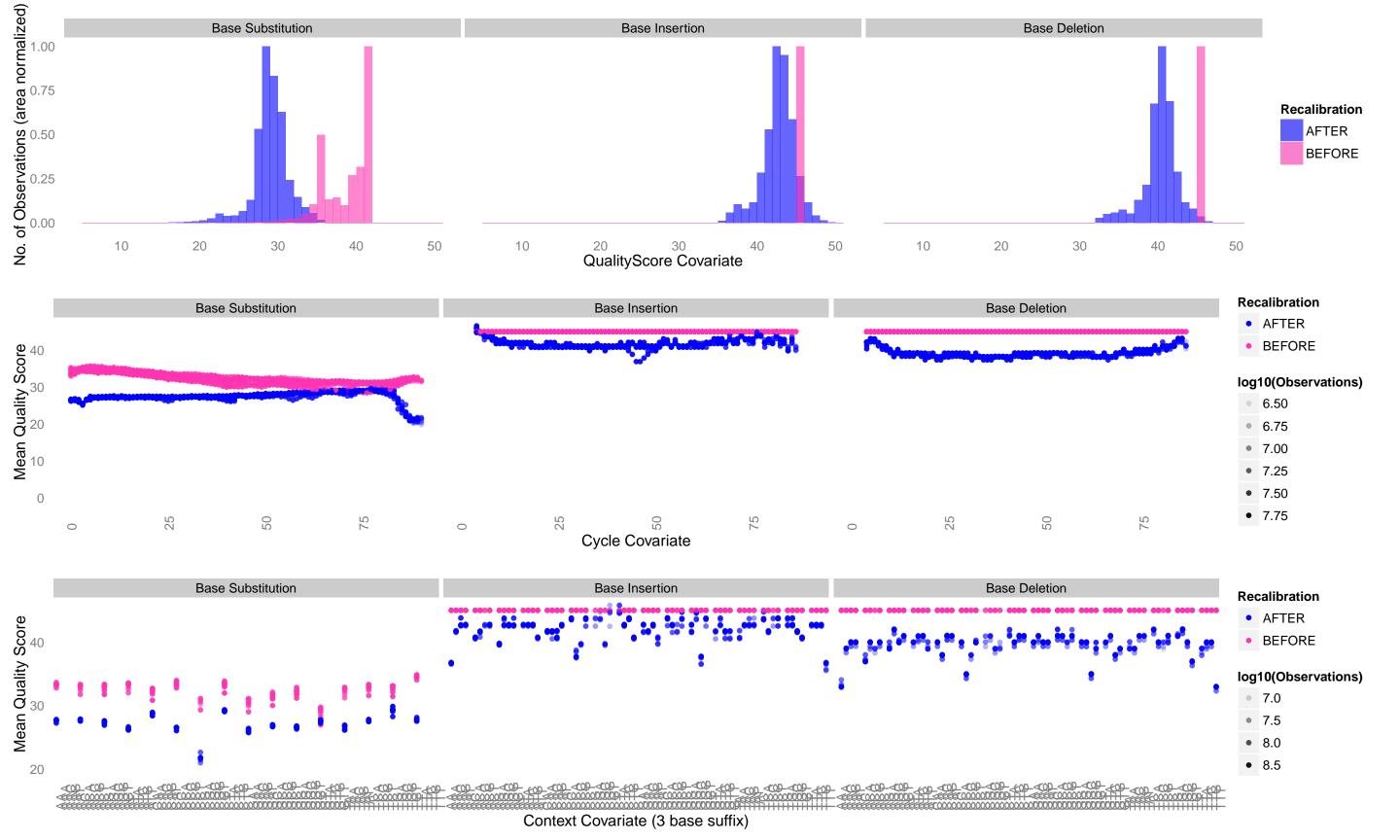
GATK BaseRecalibration report

Argument	Value
binary_tag_name	None
covariate	ReadGroup, QualityScore, Context, Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	—1
no_standard_covs	false
quantizing_levels	16
run_without_dbsnp	false
solid_nocall_strategy	THROW_EXCEPTION
solid_recal_mode	SET_Q_ZERO





Overall error rates by event type

:4	D7LYMFP1:177:3	D7LYMFP1:177:3	D7LYMFP1:177:3	D7LYMFP1:177:7	D7LYMFP1:177:7	D7LYMFP1:177:7	D7LYMFP1:177:1	D7LYMFP1:177:1	D7LYMFP1:177:1	D7LYMFP1:177:8	D7LYMFP1:177:8	D7LYMFP1:177:8	D7LYMFP1:177:2	D7LYMFP1:177:2	D7LYMFP1:177:2	D7LYMFP1:177:5	D7LYMFP1:177
D	M	1	D	M	I	D	M	1	D	M	l I	D	M	I	D	M	
.0	27.0	42.0	39.0	27.0	42.0	40.0	27.0	42.0	39.0	27.0	42.0	39.0	27.0	42.0	39.0	27.0	42
.0	31.8	45.0	45.0	31.0	45.0	45.0	32.7	45.0	45.0	32.2	45.0	45.0	32.2	45.0	45.0	32.5	45
19	3.55e+09	3.55e+09	3.55e+09	4.40e+09	4.40e+09	4.40e+09	3.15e+09	3.15e+09	3.15e+09	5.27e+09	5.27e+09	5.27e+09	3.22e+09	3.22e+09	3.22e+09	3.15e+09	3.15e+(
15	7.650+06	2 220+05	4 130+05	8 500+06	3 830+05	4.910+05	5.070+06	1 080+05	3 680+05	1.020+07	3 100+05	6.070+05	6.340+06	2.080+05	3 800+05	5.020+06	1 080+(

Error rates by event type and initial quality score

D701MFP1-177-4 D701MFP1-177-4	25 26	ii ii	21 23	3312307 4379415	25135.61 24158.56
D701MFP1:177-4 D701MFP1:177-4 D701MFP1:177-4 D701MFD1:177-4	27 28 29 30	M M	22 24 25 36	2312307 4373415 4553105 3796440 7833066 11916097 15082865	30067.95 14095.46 25684.94 31749.79
D701MFP1:177-4 D701MFP1:177-4 D701MFP1:177-4	31 32 33	M M	26 26 28	15085865 17333043 34605936 72255173 418254701	37423.68 43688.86 60507.22
D701MFP1:177-8 D701MFP1:177-8 D701MFP1:177-8 D701MFP1:177-8	34 35 36	ii ii	27 28 30 30	72255173 418254701 112295805 123931752	155809.88 697937.29 113369.68 148154.85
D701MFP1:1774 D701MFP1:1774 D701MFP1:1774	38 39 40	M M	28 28 29	112295005 122931752 72840957 221336434 263598441 864463024	117677.86 360271.91 390410.26
D701MFP1:1774 D701MFP1:1774 D701MFP1:1774	45 45 6		20 42 39		144332.61 266416.58 172568.15
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	7 8	M M	7 7 8	2280162792 479871 2201491 2097531 913445 1082466	2615.6 fb 2007.7
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	10 11 12 13	ii ii	12 11 12	1082466 645818 671953 1264052 481253 1664080 1101948	45394.60 47827.91 72206.14
D7DMFP1:177:3 D7DMFP1:177:3 D7DMFP1:177:3	16 15 16	M M M	11 14 12	491253 1664080 1101948	40082.68 73967.24 62245.50
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	10 19 20	ii ii	15 16 17 20	3172284 1638560 3927415	86901.62 32738.07 35226.43
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	21 22 23	ă E	18 20 21	110/1948 1647389 3172294 1623500 2027415 1503948 2934503 4886107 5533513 6677215 10184727 2003500	24748.78 31332.24 35946.71
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	25 26 27	M M	21 22 23 23	6677215 10184737 9200060	### 1982 5.5 (1) ### 19
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	29 29 30 31	M M	24 25 26 26	10184737 200080 8000153 16122776 24012730 31128166 33078721 64022111 131564400 624551100 181818020 18025055	31773.41 50756.87 65324.54 73500.32
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	32 33 34	M M	27 28 27	33978721 64032111 131564420	75491.94 112264.78 256703.28
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	36 37 38	M M	20 20 29 28	181818229 182395555 150771010 251922844 434473039	194020.57 228664.48 236312.34
D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3 D701MFP1:177:3	39 40 41 45	M M	28 28 28 42	351992044 434473039 1240164373 3546598909	553401.06 637839.66 2001273.48 202114.66
D701MFP1:177:3 D701MFP1:177:7 D701MFP1:177:7	45 6 7	M	29 6 10	3546596809 726274 3705143	413034.57 192419.28 416800.38
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	9 10 11	ii ii	10 10 12 16	1941-94.273 24	117677.50 113383.34 22272.46
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	12 13 14	M M	14 19 13	1186940 1554949 718794	44902.21 18331.96 32898.77
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	16 17 18	M M	16 19 18	1691374 2755625 5474170	43160.62 32546.06 79105.42
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	19 20 21	8	20 24 22	260371-6 7603806 2533776	29290.93 30080.63 16924.79
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	21 24 25	M M	24 24 24 24	8128404 10403867 11879503	29764.18 38270.27 44713.28
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	26 27 28 29	M M	26 26 28 27	17352059 17442379 13221045 30775776	42567.54 47293.76 23024.67 62036.74
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	30 31 32	ă E	28 28 28	174-61379 13231045 30775776 4238317 5747-4433 63600240 1227827722	70742.84 95640.65 102994.93
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	34 35 36	ii ii	28 28 20 30	696829153	425872.35 1222871.63 205670.49
D70:MFP1:177:7 D70:MFP1:177:7 D70:MFP1:177:7	37 38 39	M	29 28 28	191667024 213119245 196000746 410742392 534584573 1460173845	253509.43 298571.56 632963.56
D701MFP1:177:7 D701MFP1:177:7 D701MFP1:177:7	41 45 45	M J	28 42 40	1460178445 4397258726 4397258726	2367739.71 282704.70 491174.21
D703MFP1:177:1 D703MFP1:177:1 D703MFP1:177:1 D703MFP1:177:1	6 7 8	H	5 9 8	42977-501700 42977-501700 520500 520500 520500 520500 7771-500 777	2004-01 (200
D701MFP1:177:1 D701MFP1:177:1 D701MFP1:177:1	10 11 12	M M	10 14 14	771109 389460 486012	75128.17 14923.26 21525.89
D701MFP1:177:1 D701MFP1:177:1 D701MFP1:177:1	14 15 16	M M	12 16 15	316162 1187171 801807	20033.19 32693.95 28100.60
D70:MFP1:177:1 D70:MFP1:177:1 D70:MFP1:177:1 D70:MFP1:177:1	17 18 19	M M	17 16 17 23	125895 2277237 1153801 2723331	27503.07 59121.44 20648.12 15036.05
D701MFP1:177:1 D701MFP1:177:1 D701MFP1:177:1	21 22 23	M M	20 22 22 22	1056967 2013740 3192609	11380.94 14238.66 19118.28
D701MFP1:177:1 D701MFP1:177:1 D701MFP1:177:1	26 25 26 27	i	22 22 24	4937623 7103875 9993488	29144.75 29329.32 38411.80
D7DMFP1:177:1 D7DMFP1:177:1 D7DMFP1:177:1	28 29 30	M M M	26 26 27	6083056 12063206 18751619	17010.32 32883.19 41109.23
D7:1MFP1:177:1 D7:1MFP1:177:1 D7:1MFP1:177:1	32 33 34	ii ii	26 28 27	26421292 53722772 111550406	59638.57 87480.41 227381.17
D701MFP1:177:1 D701MFP1:177:1 D701MFP1:177:1	35 36 37	ă E	28 30 29	585048357 156444664 166936947 115088201	969797.14 160695.77 197006.19
D701MFP1:177:1 D701MFP1:177:1 D701MFP1:177:1	39 40 41	ii ii	20 20 20 20	305573928 373364609 1154576562	472570.39 555173.64 1868628.04
D70:MFP1:177:1 D70:MFP1:177:1 D70:MFP1:177:8 D70:MFD1:177:8	45 45 6	B M	42 39 6	305.57.00008 315.67.00008 315.67.00008 315.67.00008 315.67.00008 315.67.00008 315.67.00008 315.0008 315.0008 3	627733 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D701MFP1:177.8 D701MFP1:177.8 D701MFP1:177.8	8 9	M M	9 10 11	2699815 1211003 1709567	340015.31 136723.17 133395.32
D701MFP1:1778 D701MFP1:1778 D701MFP1:1778	11 12 13 14	ii ii	15 18 14	967748 1598179 656092	20118.76 25280.21 27970.39
D701MFP1:177:8 D701MFP1:177:8 D701MFP1:177:8	15 16 17	M	17 16 19	2573926 1746138 2493550	47836.77 39520.08 32998.72
D701MFP1:177.8 D701MFP1:177.8 D701MFP1:177.8	19 20 21	M M	18 24 21	2141768 5124501 2200652	31568.18 21796.93 17521.24
D701MFP1:1778 D701MFP1:1778 D701MFP1:1778 D701MFP1:1778	22 23 24 25	ii ii	23 23 23 24	4039115 6287871 7829031 9322144	18669.42 28543.53 37617.40 41691.47
D701MFP1:177:8 D701MFP1:177:8 D701MFP1:177:8	26 27 28	M M	25 25 27	12846563 13408600 10918740	45404.15 47691.49 23959.78
D701MFP1:177:8 D701MFP1:177:8 D701MFP1:177:8	30 31 32	M M	27 27 27 27	2282220 38093655 42823035 8444465	64814.68 82993.70 90677.52
D701MFP1:177:8 D701MFP1:177:8 D701MFP1:177:8	34 35	M M	28 27 28	155927382	145975.92 343534.35 1786277.63
D701MFP1:1778 D701MFP1:1778 D701MFP1:1778	37 38 39	M M	29 28 28	257791602 28565089 160768944 514728667	353667.39 270305.65 822853.59
D701MFP1:177:8 D701MFP1:177:8 D701MFP1:177:8 D701MFP1:177:8	40 41 45 45	M .	28 28 42 29	543415082 2012383698 5268772905 5268772905	851101.13 3382105.05 319185.18 607040.76
D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:2	5	M	5 8	354300 1771470 1596878	117407.10 281746.72 244914.92
D70MFP1:1772 D70MFP1:1772 D70MFP1:1772	10 11 12	ii ii	10 13 13	983122 502074 565121	86401.97 25257.90 31336.39
D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:2	13 14 15	M M	14 12 15	94269 380120 1382104 917616	25920.50 45265.31 77775.91
D701MFP1:177.2 D701MFP1:177.2 D701MFP1:177.2	17 18 19	M M M	16 16 18	1472083 2629881 1377495	33759 21 60683 21 22744 95
STATE				54.04.10002. 201.23.000000000000000000000000000000000	19984.59 13544.10 1571983 22243.47 27675.67 22635.80 23643.93 36105.20
D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:2	24 25 26 97	M M	22 22 24 21	4627947 5622699 8179774 7788194	27675.67 22635.80 22643.93 26105.20
D701MFP1:177.2 D701MFP1:177.2 D701MFP1:177.2	28 29 30	M M	26 26 27		18056.77 36346.50 45168.15
D7DMFP1:177.2 D7DMFP1:177.2 D7DMFP1:177.2 D7DMFP1:177.2	21 32 33 34	M M	27 27 28 27	20329463 29285384 57332370 118607102	36105.20 18056.77 36346.50 45168.15 54064.52 60117.39 92076.63 227907.66
D707MFP1:1772	35 36 37		28 30 29	585394687 161886849 171041670	981960.44 166401.78 203092.00 194002.33
D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:2	39 40 41	i i	28 28 28	344336048 385262520 1119217499	551892.86 563837.04 1789516.36
D701MFP1:177:2 D701MFP1:177:2 D701MFP1:177:5	45 45	ė	42 39 6	3218901338 3218901338 278932	207650.15 380425.38 74233.58
D7DMFP1:177.5 D7DMFP1:177.5 D7DMFP1:177.5	8 9 10	M M M	9 9 10	1423376 617496 810230	195078.39 82361.16 76199.32
D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5	11 12 13 14	M M	15 14 16	415549 457995 826484 321528	14238.94 17582.74 19311.70 16107.41
D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5	15 16 17	M	16 15 17	1172617 885126 1309066	29730.66 30571.81 27067.51
D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5	19 20 21	M M	10 10 23 21	244330048 24630049 247804500 247804500 247804500 247804500 247804500 247804500 247804500 247804500 247804500 247804500 2478045000 2478045000 2478045000 2478045000 24780450000 24780450000000000000000000000000000000000	21042.90 14406.77 10099.16
D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5	22 23 24 25	M M M	22 23 23 23	2108414 3229322 4167270 5334856	12351.58 16327.41 22735.81 22600.16
D701MFP1:1775 D701MFP1:1775 D701MFP1:1775	26 27 28	H	25 22 28	7344731 7359014 6484047	27609.32 35477.50 15798.81
D7D1MFP1:177.5 D7D1MFP1:177.5 D7D1MFP1:177.5	29 30 31 32	M M	26 27 27 27 27	14001194 20541763 27589823 32273261	35461.93 41301.53 55035.92 67851.57
D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5 D701MFP1:177.5	23 24 25	M M	28 27 28	64281978 144221352 540987581	101585.53 284554.49 892659.63
D707MFP1:177.5 D707MFP1:177.5 D707MFP1:177.5	37 38 39	i	29 28 28	156465202 119537640 303719448	185097.15 185435.61 470949.48
U/CMFP1:177.5 D7CMFP1:177.5 D7CMFP1:177.5 D7CMFP1:177.5	40 41 45 45	M M I	28 28 42 39	374415585 1149468504 3151930144 3151930144	554888.77 1853516.34 198207.11 373167.48
SOURCE 1/12 1/	6 7 8			20772001 6-0381978 6-0381978 6-0381978 1-05400000000000000000000000000000000000	\$200.00 mg 100.00 mg 100.0
D701MFP1:177:6 D701MFP1:177:6 D701MFP1:177:6	10 11 12	H	10 10 15 15	1291016 628984 790696	117462.17 21617.74 24292.55
U/C/MEP1:177:6 D7C/MEP1:177:6 D7C/MEP1:177:6 D7C/MEP1:177:6	13 14 15		17 13 17	1278400 507535 1901445	26583.58 22871.70 40829.23
D701MFP1:177.6 D701MFP1:177.6 D701MFP1:177.6	17 18 19		10 18 17 18	2088001 3596118 1792065	4082923 3812820 30428.46 78229.72 29518.50 18272.33 14272.47
D7CHMFP1:177:6 D7CHMFP1:177:6 D7CHMFP1:177:6 D7CHMFP1:177:6	20 21 22 23	i i	23 20 23 23	3891725 1673367 3099234 4804496	18279.33 14973.47 16202.04 22702.86