

GRCh38														
NA24385														
	SNV							InDel						
Pipeline	TP	FP	FN	Sensitivity	Precision	F-Score	FDR	TP	FP	FN	Sensitivity	Precision	F-Score	FDR
Bowtie_DeepVariant	41071	1769	1099	0.974	0.959	0.966	0.041	4028	484	365	0.917	0.893	0.905	0.107
Bowtie_FreeBayes	40921	1919	1231	0.971	0.955	0.963	0.045	3955	557	401	0.908	0.877	0.892	0.123
Bowtie_GATK	41090	1750	1148	0.973	0.959	0.966	0.041	4021	491	312	0.928	0.891	0.909	0.109
Bowtie_SAMtools	42103	737	1071	0.975	0.983	0.979	0.017	3882	630	476	0.891	0.860	0.875	0.140
BWA_DeepVariant	42267	573	1031	0.976	0.987	0.981	0.013	4101	411	261	0.940	0.909	0.924	0.091
BWA_FreeBayes	42063	777	1261	0.971	0.982	0.976	0.018	4001	511	371	0.915	0.887	0.901	0.113
BWA_GATK	42152	688	1081	0.975	0.984	0.979	0.016	4095	417	278	0.936	0.908	0.922	0.092
BWA_SAMtools	42257	583	1049	0.976	0.986	0.981	0.014	3861	651	498	0.886	0.856	0.870	0.144
MOSAIK_DeepVariant	41082	1758	1111	0.974	0.959	0.966	0.041	4011	501	325	0.925	0.889	0.907	0.111
MOSAIK_FreeBayes	42077	763	1293	0.970	0.982	0.976	0.018	3967	545	355	0.918	0.879	0.898	0.121
MOSAIK_GATK	13830	29010	941	0.936	0.323	0.480	0.677	3561	951	2094	0.630	0.789	0.701	0.211
MOSAIK_SAMtools	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Novoalign_DeepVariant	42274	566	1023	0.976	0.987	0.982	0.013	4131	381	234	0.946	0.916	0.931	0.084
Novoalign_FreeBayes	42051	789	1290	0.970	0.982	0.976	0.018	3951	561	392	0.910	0.876	0.892	0.124
Novoalign_GATK	42139	701	1079	0.975	0.984	0.979	0.016	4129	383	241	0.945	0.915	0.930	0.085
Novoalign_SAMtools	42251	589	1059	0.976	0.986	0.981	0.014	3897	615	420	0.903	0.864	0.883	0.136
SOAP_DeepVariant	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOAP_FreeBayes	40123	2717	2124	0.950	0.937	0.943	0.063	3592	920	2042	0.638	0.796	0.708	0.204
SOAP_GATK	40891	1949	2041	0.952	0.955	0.953	0.045	3402	1110	2104	0.618	0.754	0.679	0.246
SOAP_SAMtools	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRCh37														
NA24631														
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Pipeline	TP	FP	FN	Sensitivity	Precision	F-Score	FDR	TP	FP	FN	Sensitivity	Precision	F-Score	FDR
Bowtie_DeepVariant	40482	649	992	0.976	0.984	0.980	0.016	2783	207	197	0.934	0.931	0.932	0.069
Bowtie_FreeBayes	40412	719	882	0.979	0.983	0.981	0.017	2421	569	280	0.896	0.810	0.851	0.190
Bowtie_GATK	40241	890	1063	0.974	0.978	0.976	0.022	2542	448	214	0.922	0.850	0.885	0.150

Bowtie_SAMtools	40462	669	1003	0.976	0.984	0.980	0.016	2391	599	318	0.883	0.800	0.839	0.200
BWA_DeepVariant	40580	551	748	0.982	0.987	0.984	0.013	2883	107	142	0.953	0.964	0.959	0.036
BWA_FreeBayes	40089	1042	2833	0.934	0.975	0.954	0.025	2481	509	259	0.905	0.830	0.866	0.170
BWA_GATK	40543	588	781	0.981	0.986	0.983	0.014	2858	132	181	0.940	0.956	0.948	0.044
BWA_SAMtools	40559	572	751	0.982	0.986	0.984	0.014	2309	681	1078	0.682	0.772	0.724	0.228
MOSAIK_DeepVariant	40213	918	1062	0.974	0.978	0.976	0.022	2691	299	203	0.930	0.900	0.915	0.100
MOSAIK_FreeBayes	40132	999	2041	0.952	0.976	0.964	0.024	2313	677	294	0.887	0.774	0.827	0.226
MOSAIK_GATK	8320	32811	430	0.951	0.202	0.334	0.798	2013	977	924	0.685	0.673	0.679	0.327
MOSAIK_SAMtools	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Novoalign_DeepVariant	40583	548	734	0.982	0.987	0.984	0.013	2881	109	159	0.948	0.964	0.956	0.036
Novoalign_FreeBayes	40092	1039	2174	0.949	0.975	0.961	0.025	2311	679	274	0.894	0.773	0.829	0.227
Novoalign_GATK	40537	594	821	0.980	0.986	0.983	0.014	2866	124	179	0.941	0.959	0.950	0.041
Novoalign_SAMtools	40563	568	739	0.982	0.986	0.984	0.014	2351	639	351	0.870	0.786	0.826	0.214
SOAP_DeepVariant	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOAP_FreeBayes	40051	1080	2641	0.938	0.974	0.956	0.026	2308	682	1031	0.691	0.772	0.729	0.228
SOAP_GATK	40031	1100	3021	0.930	0.973	0.951	0.027	2129	861	953	0.691	0.712	0.701	0.288
SOAP_SAMtools	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Pipeline	TP	FP	FN	Sensitivity	Precision	F-Score	FDR	TP	FP	FN	Sensitivity	Precision	F-Score	FDR
Bowtie_DeepVariant	43492	837	1850	0.959	0.981	0.970	0.019	3412	227	562	0.859	0.938	0.896	0.062
Bowtie_FreeBayes	43351	978	1946	0.957	0.978	0.967	0.022	3333	306	653	0.836	0.916	0.874	0.084
Bowtie_GATK	43539	790	1831	0.960	0.982	0.971	0.018	3409	230	582	0.854	0.937	0.894	0.063
Bowtie_SAMtools	43678	651	1521	0.966	0.985	0.976	0.015	3278	361	780	0.808	0.901	0.852	0.099
BWA_DeepVariant	43918	411	1345	0.970	0.991	0.980	0.009	3467	172	477	0.879	0.953	0.914	0.047
BWA_FreeBayes	43609	720	1591	0.965	0.984	0.974	0.016	3389	250	603	0.849	0.931	0.888	0.069
BWA_GATK	43852	477	1591	0.965	0.989	0.977	0.011	3471	168	501	0.874	0.954	0.912	0.046
BWA_SAMtools	43893	436	1385	0.969	0.990	0.980	0.010	3219	420	809	0.799	0.885	0.840	0.115
MOSAIK_DeepVariant	43502	827	1820	0.960	0.981	0.970	0.019	3381	258	581	0.853	0.929	0.890	0.071
MOSAIK_FreeBayes	43590	739	1630	0.964	0.983	0.974	0.017	3331	308	621	0.843	0.915	0.878	0.085

