

**Table S2.** Total number of SNP positions called from the 48 wheat WES data by the 24 pipelines.

	RAW			FILTERED			PERCENTAGE OF CHANGE		
	BCFtools	VarScan	FreeBayes	BCFtools	VarScan	FreeBayes	BCFtools	VarScan	FreeBayes
<b>BOWTIE2</b>	445,100	156,015	135,585	46,820	110,825	12,083	0.89	0.29	0.91
<b>BOWTIE2LOCAL</b>	587,062	178,703	121,019	68,952	126,846	15,222	0.88	0.29	0.87
<b>BWA</b>	1,078,528	112,222	431,928	94,653	81,880	53,624	0.91	0.27	0.88
<b>BWAMEM</b>	1,914,760	165,928	770,611	157,388	120,497	114,518	0.92	0.27	0.85
<b>GSNAP</b>	3,662,264	129,402	1,291,604	177,731	95,290	194,601	0.95	0.26	0.85
<b>HISAT2</b>	1,262,786	52,101	644,313	55,256	38,675	100,135	0.96	0.26	0.84
<b>NOVOALIGN</b>	1,914,005	121,513	819,156	135,406	85,319	118,316	0.93	0.30	0.86
<b>STAR</b>	455,970	147,185	934,211	82,368	106,774	142,930	0.82	0.27	0.85