

Table S2. Assembly metrics for SOAPdenovo running on error corrected reads from *H. volcanii* DS2

Assembly	SOAPdenovo on clean reads					
	ctg-CDS	scaf-CDS	ctg-N50	scaf-N50	ctg-LCB	scaf-LCB
Sequence count	6965	237	6965	237	4101	227
N50	3781	125630	3781	125630	2457	85544
Miscalled bases	187	385	187	385	249	417
Uncalled bases	0	11567	0	11567	0	22162
Extra bases	31091	14830	31091	14830	65895	23369
Missing bases	154938	150235	154938	150235	160316	176787
Extra sequences	4964	92	4964	92	1206	81
Missing replicons	0	0	0	0	0	0
DCJ Distance	2005	150	2005	150	2897	148
LCB Count	9	13	9	13	10	10
Broken CDS	524	539	524	539	760	769