

	Unfiltered				Highly connective k-mers filtered				Assembly Comparison		
	Number of contigs	Total assembled length, bp	Longest contig, bp	Total Predicted ORFs	Number of contigs	Total assembled length, bp	Longest contig, bp	Total Predicted ORFs	% similarity in unfiltered and filtered assemblies	Contigs unique to unfiltered assembly	Contigs unique to filtered assembly
Soil 1	4,841	3,763,571	14,667	6,213	5,052	4,119,152	37,688	6,549	81%	915 (19%)	1,694 (34%)
Soil 2	24,112	19,074,462	11,134	31,458	21,631	17,882,113	23,063	28,658	65%	14,180 (59%)	12,267 (57%)
Soil 3	229,398	175,344,757	12,695	295,261	175,120	146,205,678	31,412	231,706	58%	157,635 (69%)	96,489 (55%)
Rumen	29,607	23,012,572	4,441	36,857	28,354	24,028,742	8,105	36,210	76%	12,776 (43%)	9,827 (35%)
Human Gut	115,092	146,537,387	57,805	176,056	105,204	164,656,730	85,557	174,930	69%	79,756 (69%)	42,222 (40%)
Simulated	1,844	1,365,436	3,787	3,049	2,301	1,733,645	5,826	2,401	69%	375 (20%)	1,136 (49%)