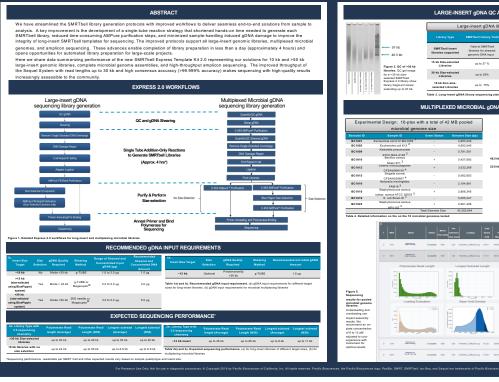
Streamlined SMRTbell® library generation using addition-only, single tube strategy for all library types reduces time to results.

PACBIO°

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Multiplexed Microbial Genome Assembly Results													
Barcode ID	Sample ID	Expected Genome Size (bp)	Genome Complexity Class	GC Content (%)	P Contigs (Main thromocomal accembly)	Concordance w/ NCBI Reference (QV)	Polished Contigs (#)	Max Contig Length (bp)	NSO Contig Length (bp)	Sum of Contig Lengths (bp)	Pre- Assembled Yield (%)	Filtered Subread Coverage (fold)	Assembly Notes
BC1001	E. coli K12 (Lucigen)	4,653,240	- 1	50.8%	1	56	- 1	4,642,499	4,642,499	4,542,499	93.1%	64	Complete chromosomal assemb
BC1002	E. coll K12 (Circulomics)	4,653,240		50.8%	1	57	- 1	4,642,500	4,642,500	4,642,500	92.9%	55	Complete chromosomal assemb
BC1009	K. preumonale	5,781,501		\$7.0%	i	48	5	5,435,746	5,435,746	5,746,850	92.5%	50	Complete chromosomal assemt and 140 kb and 85 kb plasmid assemblies. 118 kb plasmid captured in 2 contigs. Missed 2 plasmid.
BC1010	B. cereux	5,427,083		35.3%	1	25	2	5,408,315	5,408,315	5,423,588	92.7%	59	Complete chromosomal and 16 plasmid assembly.
BC1012	L. monocytogenez	3,032,269	- 1	37.9%	1	46	2	3,043,149	3,043,149	3,137,529	93.7%	66	Complete chromosomal assemb
BC1015	S. zonnei	5,062,953		\$1.0%	1	ω	1	4,813,454	4,813,454	4,813,454	93.1%	53	Complete chromosomal assemb Missing eight expected plasmids
BC1016	N. maningitidis	2,194,961	- 1	\$1.6%	1	50	- 1	2,213,947	2,213,947	2,213,947	92.2%	74	Complete chromosomal assemb
BC1018	S. aureuz	2,806,345	-	32.9%	1	56	2	2,778,860	2,778,860	2,806,350	92.6%	92	Complete chromosomal and 27 plasmid assemblies.
BC1019	E. coli Strain W	5,005,347		50.8%	1	44	2	4,898,327	4,898,327	5,004,399	93.0%	68	Complete chromosomal and 10 plasmid assemblies. Missed 5 plasmid.
BC1022	S. aureux HPV107	2,901,405		32.9%	1	22	2	2,962,786	2,962,786	2,994,972	93.4%	82	Complete chromosomal and 24 plasmid assembles.

CONCLUSION

The SMRTbell Express Template Prep Kit 2.0 product family provides streamlined, expedited workflows for improved ease of use with better recovery and yield. This enables the completion of library generation within a day for sequencing.

For large-insert gDNA library, SMRTbell library construction can be completed in 4 hours.

For multiplexed microbial genome assembles. Ne key improvement is the change in sharing condition to generate -12 kb insent titrants, and the much simplified workflow to complete ilburary preparation from gDAN to SMT their library in -6 5 first, depending on number of samples being processed. Customers will appreciate the reduced AMP ure purification steps required by the protocol, and the single-tube addition strategy opens up opportunities to explore automated library generation.

Forthcoming this year in Summer 2019, we anticipate new solutions for our full-length transcript Iso-Seq application and amplicon sequencing to join the Express TPK 2.0 product family.

REFERENCES

Procedure & Checklist - Preparins (Albraries Usino the SMRTbell® Excress Template Preparation Kill 2.0 Procedure & Checklist - Preparins (Mulliplexed Microbial Libraries Using SMRTbell® Excress Template Prep Kill 2.0 Analysis Procedure - Multiplexed Microbial Assembly with SMRT Link v6.0.0 and Express Template Prep Kill 2.0 Excress Microbial (Multiplexims Calculator

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