



HMW gDNA Expertise

Robert (Bert) Bogden
President & Founder

Amplicon Express: *Founded in 1996*



- Amplicon Philosophy: “Scientists Inventing & Working for Scientists”
- **Quanzhou made more than 2,600 custom BAC libraries (+57 Million BAC clones)**
- Specialized in making HMW DNA, NGS grade DNA & PacBio 20kb & 30kb Libraries
- Authorized Pacific Bioscience Service Provider
- **PacBio R&D Team uses EXCLUSIVELY Amplicon prepared gDNA!**
- Innovative scientists in USA with sales teams in USA, Europe, India and SE Asia

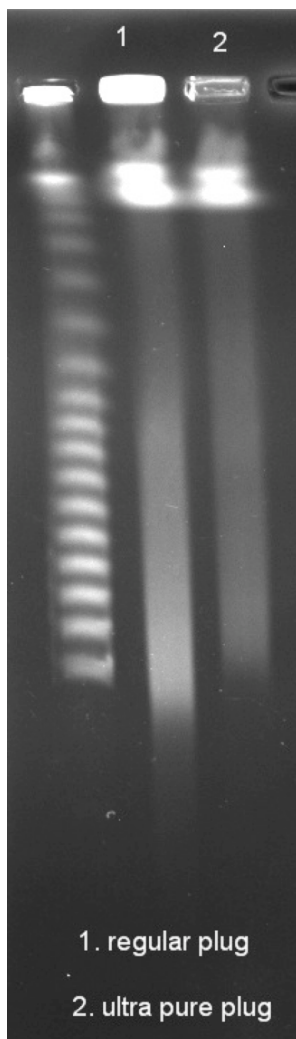
Important Relationships:

AR Brown – Japan/SE Asia
Axil Scientific – Singapore
First BASE – Malaysia
Medclub – Taiwan
MDxK – South Korea
BioTech Desk – India
KeyGene – Holland
Pacific Biosciences – USA
10X Genomics – USA

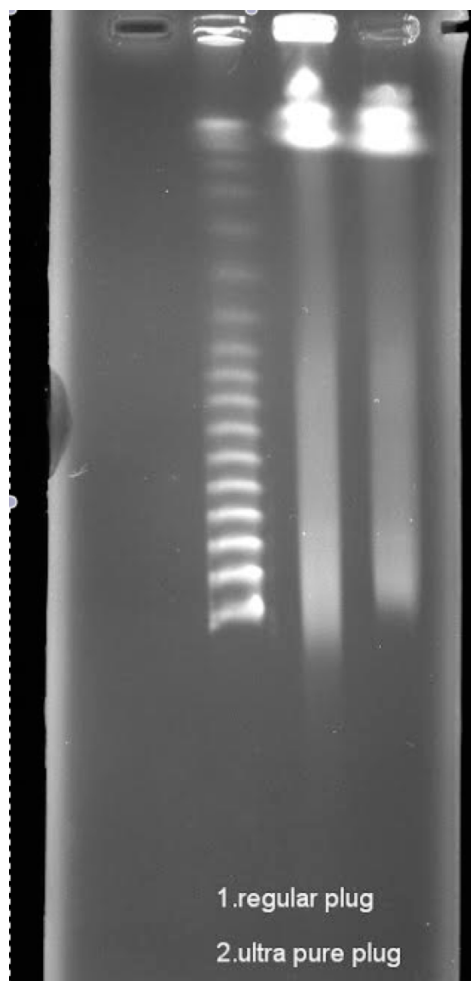


After +20 years we know: Evolve or Go Extinct!

Ultra Pure HMW gDNA Preparation Expertise Optimized for BioNano Genomics



Linum usitatissimum (flax oil)



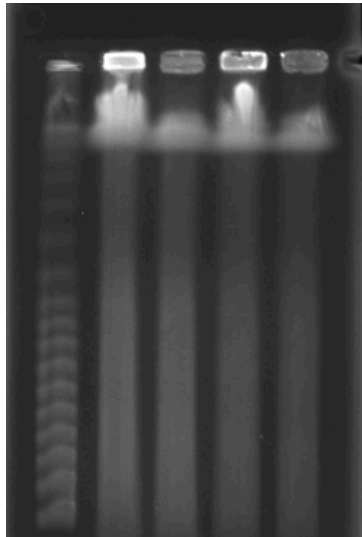
Zea mays (corn)

PFGE photos with Lambda Ladder (bands every 50 Kb)

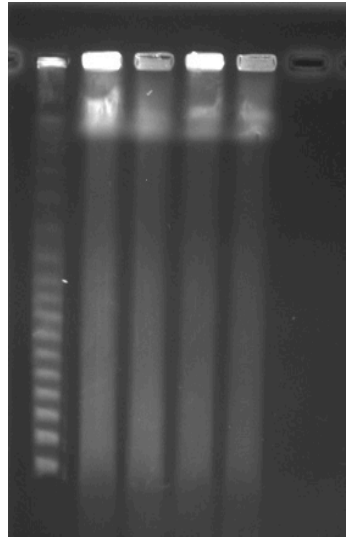
More Examples of HMW DNA Isolations for IRYS System (BioNano Genomics)



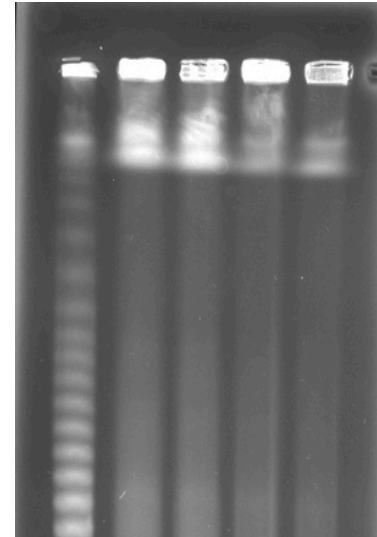
+20 years making HMW DNA for BAC libraries deployed to maximize the quality of data obtained on BioNano Genomics IRYS Platform (i.e. optical mapping)



Fish Species



Plant Species



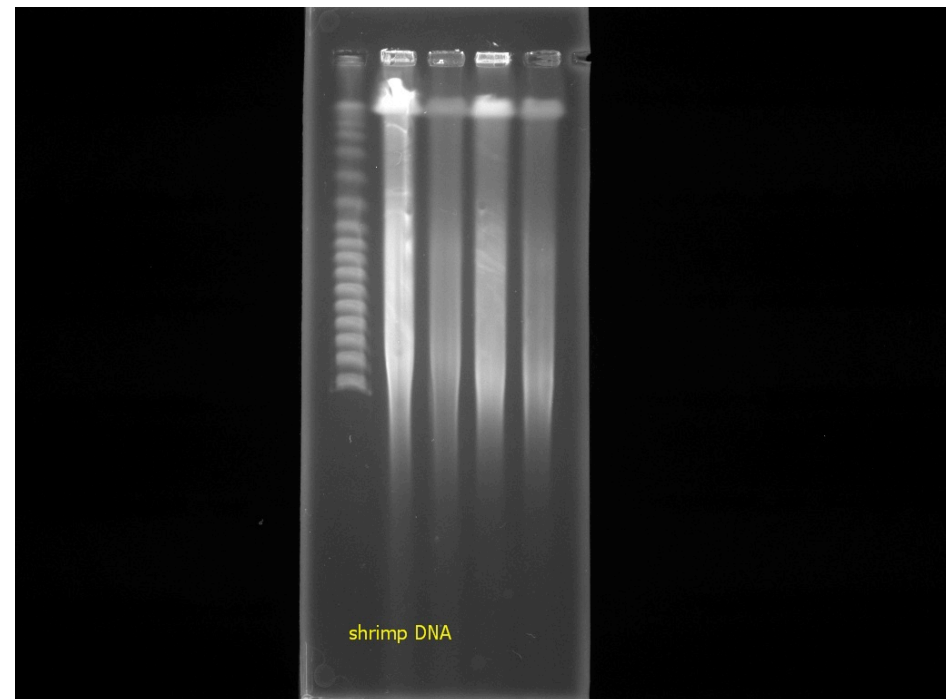
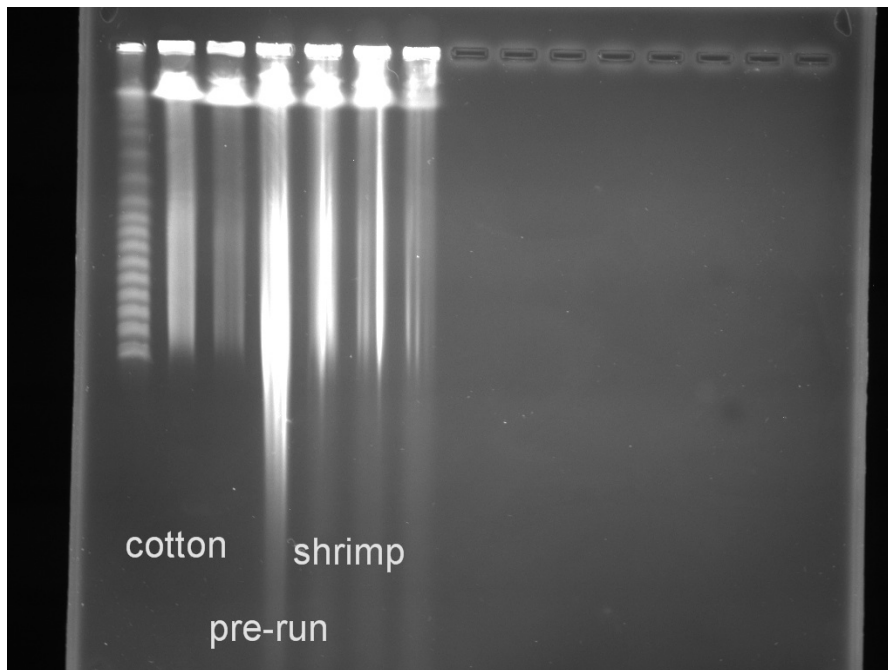
Mammal Species

We are proud to be making some of the worlds finest HMW DNA

PFGE photos of megabase sized gDNA with limited shearing (marker has bands every 50 Kb)

BAC Library – Very Difficult Shrimp Tissues

Start BAC library by making Megabase sized High Molecular Weight (HMW) DNA

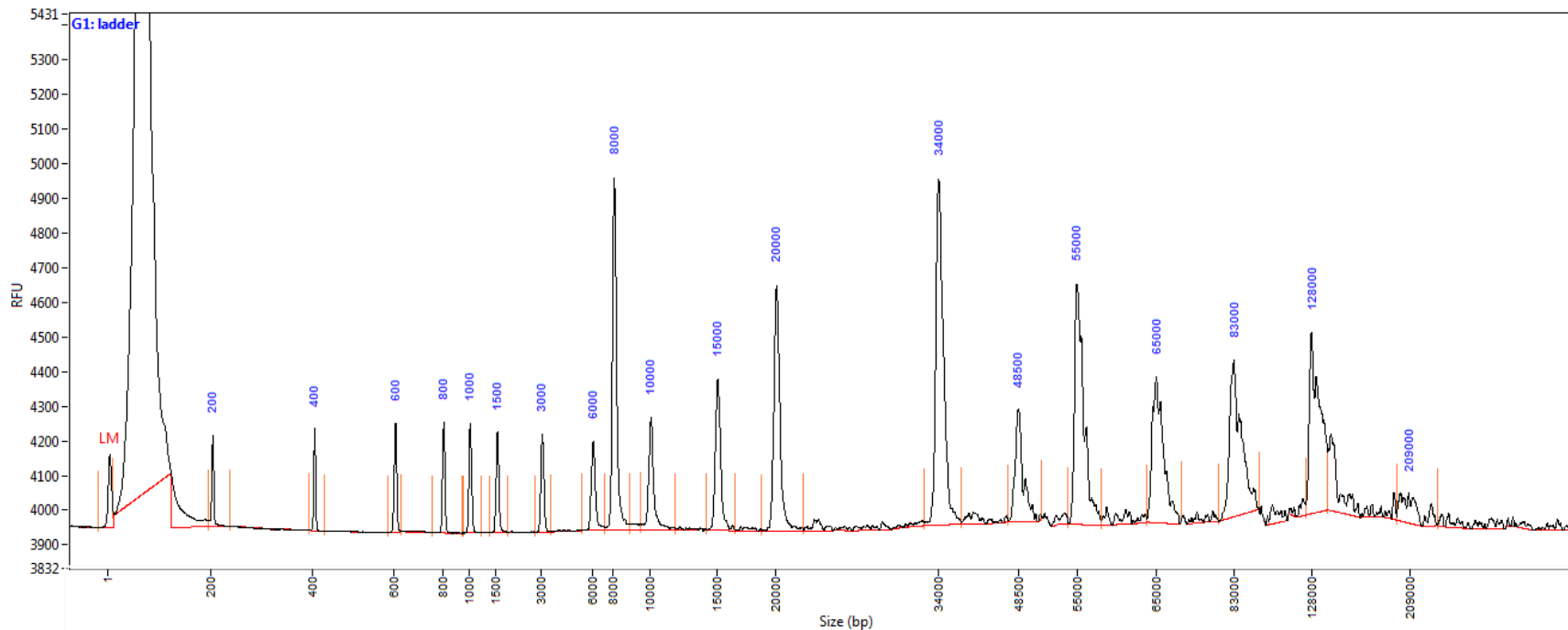


The Pulsed Field Gel marker has bands each 50 Kb

*We tried many tissue types and most gave us great looking HMW DNA:
hemolymph (the best), sperm, muscle, ovary and even whole shrimp.*

FEMTO Pulse – HMW gDNA Quantification

			Volume Ladder	100ul
Item	stock conc	Desired in well conc	ul	
DNF-364	250.00	3.75	1.500	
Fermentas 20kb	0.98	0.050	5.102	
Amplicon Ex 34kb	3.00	0.1	3.333	
Amplicon Ex 55kb	26.30	0.195	0.741	
Amplicon 65kb	2.50	0.25	10.000	
Amplicon Ex 83kb	20.80	0.3	1.442	
Amplicon Ex 128kb	24.60	0.4995	2.030	
Amplicon Ex 209kb	28.10	0.4995	1.778	
ul DNF-375 HS genomic			75.00	
ul 0.25x TE			-0.93	



Excellent Results of Amplicon Express

Very Long NGS DNA prep and 30 Kb Libs

- = 20 Kb protocol (6hr movie)
- = 30 Kb protocol (4hr movie)
- = 30 Kb protocol (6hr movie)

