

ABOUT US

We are a company specializing in AQUACULTURE BIOTECHNOLOGY

GK AQUA pioneer in Freshwater Aquaculture Biotechnology company formed to commercialize and implement its cutting-edge technology to improve Freshwater prawn farming efficiency. We not only focus on commercialization of prawn culture, but also keen in research and development of freshwater prawn biology to maintain the sustainability as well as the quality of farmed species. Genetic selection, disease screening and nutrient manipulation are some key elements in GK Aqua to assure the prawn quality. With continuous research on freshwater prawn, we strive to provide best quality seeds and specific pathogen-free broodstock (SPF).

Contact Us At



+60 6667 2535
+60 14 3275 824



www.gk-aqua.biz



info@gk-aqua.biz



GK AQUA SDN BHD



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SERVICES

TRAININGS



Trainings & short courses

Freshwater prawn farming

- o Hatchery management
- o Nursery management
- o Broodstock management

Bioinformatics Data Analysis (dry lab)

i. Whole Genome Sequencing

- o Whole Genome and Species Identification
- o Distinction between inter- and intra- species
- o Species distinction in different geographical area

- o Specific gene target Identification and Analysis

- o Protein analysis for the targeted genes
- o Additional customized

ii. Amplicon Sequencing

- o Species Identification
- o Virus or pathogen identification
- o Targeted-site analysis
- o Bacterial species abundance

iii. Customized bioinformatics trainings by an NGS Expert

Genomics

- o DNA Marker Assisted Selection
- o Linkage mapping

Primer design

- o PCR Primer Design
- o LAMP Primer Design

Genetics

- o Introduction to Genetics
- o Central Dogma (DNA > RNA > Protein)

Molecular biology (wet lab)

- o DNA/RNA Extraction
- o cDNA synthesis
- o PCR Amplification
- o LAMP Amplification
- o Gel electrophoresis
- o DNA purification
- o DNA size selection
- o Library preparation
- o DNA Sequencing

Feed formulation

- o Feeding mechanism
- o Sustainable aquafeed
- o Feed formulation

- Trainings can be conducted according to specific request
- Prices may vary according to types of training and number of participants

Services

Disease Identification (Virus & Bacteria)

i. Virus

- o White spot syndrome virus (WSSV)
- o Taura Syndrome Virus (TSV)
- o Enterocytozoan hepatopenaei (EHP)
- o Infectious Hypodermal and Hematopoietic Necrosis Virus (IHHNV)
- o Macrobrachium rosenbergii nodavirus (MrNV)
- o Extra small virus (XSV)
- o Yellow head virus (YHV)

ii. Bacteria

- o Vibrio sp.
- o Pseudomonas sp.
- o Escherichia sp.
- o Salmonella sp.
- o Streptomyces sp.

iii. Fungal

- o Candida sp.
- o Aspergillus sp.

Oligo synthesis

DNA/RNA Extraction

Gene cloning

Yeast transformation
In-vitro yeast expression

Water quality assessment

- o pH
- o Nitrate
- o Nitrite
- o Ammonia
- o Calcium
- o Iron
- o Phosphate
- o Alkalinity
- o Salinity
- o Dissolved oxygen

- Disease identification can be requested according to species
- Prices may vary according to species and number of samples