

Table S4. Sample type with available sequenced data for marine and freshwater samples. All data was collected from the original study for each sample.

	marine samples	freshwater samples
habitats	wt, farm, laboratory	wt, farm, laboratory
organs	intestine, clean intestine, gill, hepatopancreas, whole	intestine, clean intestine, hepatopancreas, foregut
growth-stages	adult, larvae, post-larvae, pre-adult	adult
diets	wt, CHOs, soybean oil, beef tallow, linseed oil, fish oil, SBF	wt
species	<i>L. vannamei</i> , <i>P. monodon</i> , <i>A. longirostris</i>	<i>M. nipponense</i> , <i>M. rosenbergii</i> , <i>M. asperulum</i> , <i>N. Denticulata</i>
health status	healthy and diseased	healthy