

Supplementary Materials

Characterization and Expression Analysis of Insulin Growth Factor Binding Proteins (IGFBPs) in Pacific White Shrimp *Litopenaeus vannamei*

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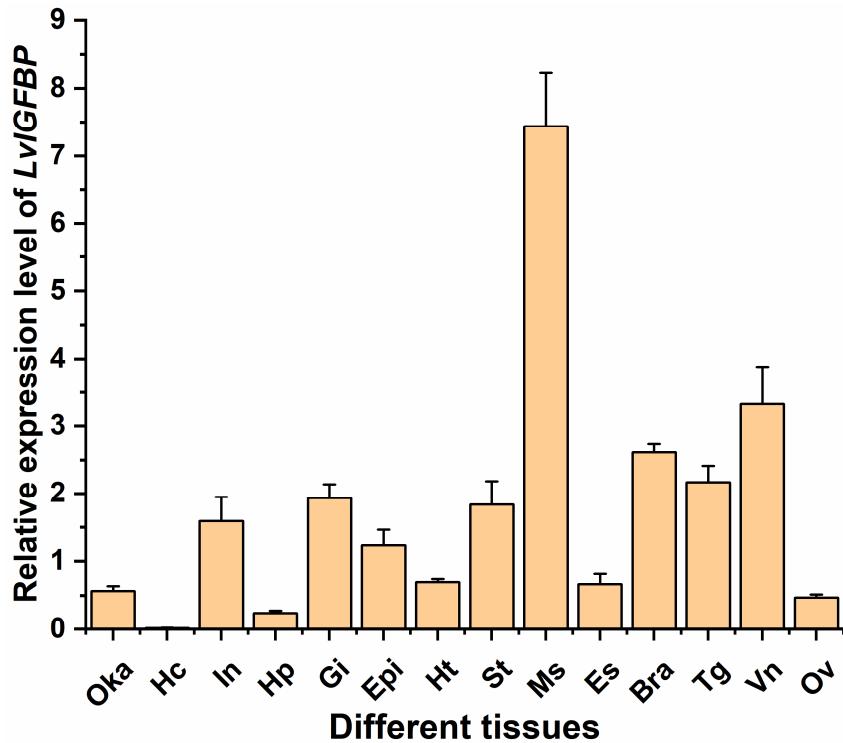


Figure S1. Expression of LvIGFBP1 analyzed by real-time PCR in different shrimp tissues. Abbreviations used in this figure are as follows: Hemocyte (Hc), Muscle (Ms), Intestines (In), Ovary (Ov), Stomach (St), lymphoid organ (Oka), Gill (Gi), Hepatopancreas (Hp), Eye-stalk (Es), Brain (Bra), Thoracic ganglion (Tg), Ventral nerve (Vn), Epidermis (Epi), Heart (Ht). Each bar is means \pm SD of three shrimps for different tissue. 18S rRNA served as reference gene.

Table S1. NCBI accession numbers for all IGFBP superfamily sequences in phylogenetic analysis.

		Species	Gene	pI	Accession Number
Chordata					
Mammalia	Primates	<i>Homo sapiens</i>	IGFBP1	5.11	AAA52783.1
			IGFBP2	7.48	AAB22308.1
			IGFBP3	9.03	EAL23801.1
			IGFBP4	6.81	AAA62670.1
			IGFBP5	8.58	AAA53505.1
			IGFBP6	8.15	EAH96664.1
			IGFBP7	8.25	AAH66339.1
	Rodentia	<i>Mus musculus</i>	IGFBP4 precursor	6.81	NP_034647.1
Actinopterygii	Cypriniformes	<i>Danio rerio</i>	IGFBP1	7.82	CAC44453.1
			IGFBP2	6.59	AAF23123.1
			IGFBP3	8.43	CAC44454.1
			IGFBP5	8.66	AAM51549.1
			IGFBP6	9.00	ABV58580.1
			IGFBP7 precursor	7.38	NP_998089.1
Arthropod					
Malacostraca	Decapoda	<i>Sagmariasus verreauxi</i>	IGFBP	4.71	ALZ50690.1
		<i>Cherax quauricarinatus</i>	IGFBP	4.66	AGS78412.1
		<i>Scylla paramamosain</i>	IGFBP7	4.40	ALO50698.1
		<i>Chaceon quinquedens</i>	IGFBP	4.40	ART33388.1
Insecta	Amphipoda	<i>Trinorchestia longiramus</i>	IGFBP	5.31	KAF2359210.1
	Lepidoptera	<i>Bombyx mandarina</i>	IGFBP-like1	6.14	XP_028026220.1
		<i>Trichoplusia ni</i>	IGFBP-like1	4.85	XP_026744518.1
	Hymenoptera	<i>Harpegnathos saltator</i>	IGFBP-rP1	5.45	XP_011143747.2
			IGFBP7	7.95	EFN79600.1
		<i>Apis dorsata</i>	IGFBP7	4.98	XP_006622917.1
		<i>Cyphomyrmex costatus</i>	IGFBP7	4.45	KYM95970.1
		<i>Trachymyrmex cornetzi</i>	IGFBP7	4.53	KYN08935.1
		<i>Atta colombica</i>	IGFBP7	4.79	KYM88446.1
	Homoptera	<i>Siphula flava</i>	IGFBP-rP1	6.42	XP_025409042.1
		<i>Rhopalosiphum maidis</i>	IGFBP-rP1	5.40	XP_026819885.1
	Blattaria	<i>Blattella germanica</i>	IGFBP-rP1	5.44	PSN40882.1
Entognatha	Collembola	<i>Folsomia candida</i>	IGFBP7	5.27	OXA42780.1
Merostomata	Xiphosura	<i>Limulus polyphemus</i>	IGFBP-rP1	4.80	XP_013780174.1
Arachnida	Acarina	<i>Tetranychus urticae</i>	IGFBP-rP1	5.21	XP_015793232.1
Mollusca					
Gastropoda	Archaeogastropoda	<i>Haliotis madaka</i>	IGFBP7	5.98	ALU63746.1
		<i>Haliotis discus hannai</i>	IGFBP5	5.77	QNG71088.1
Lamellibranchia	Nudibranchia	<i>Aplysia californica</i>	IGFBP-rP1	5.66	XP_005097687.1
	Pterioida	<i>Pinctada fucata</i>	IGFBP	8.38	ANN23501.1
			IGFBP5	8.58	ALJ32264.1
		<i>Patinopecten yessoensis</i>	IGFBP5	8.93	KF801669.1
	Anisomyaria	<i>Crassostrea virginica</i>	IGFBP-rP1	5.72	XP_022345586.1