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Integrated control of fish metabolism, wellbeing and reproduction: the role of probiotic

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Abbreviation

agpat4, the gene encoding 1-Acylglycerol-3-Phosphate O-Acyltransferase 4; *ara*, the gene encoding androgen receptor α ; *ar β* , the gene encoding androgen receptor β ; *bdfn*, the gene encoding Brain-derived neurotrophic factor; *bglap*, the gene encoding bone gamma-carboxyglutamate (gla) protein; *bmp15*, bone morphogenetic factor 15; *cb1a*, the gene encoding cannabinoid receptor 1a; *cck*, the gene encoding cholecystokinin; *cyp19a*, the gene encoding P450 aromatase; *dgat2*, the gene encoding diacylglycerol O-acyltransferase 2; *dmrt1*, the gene encoding Double-sex and mab-3 related transcription factor 1; E2, estradiol-17 β ; ERE, estrogen responsive element; *fit2*, the gene encoding fat storage-inducing transmembrane proteins; FSH, follicle stimulating hormone; *fshr*, the gene encoding follicle stimulating hormone receptor; FT-IR, Fourier Transform Infrared; GALT, gut-associated lymphoid tissues; GIALT, gill-associated lymphoid tissues; GnRH, Gonadotropin Releasing Hormone; GnRH3-GFP, Green Fluorescent Protein tagged GnRH3; *gr*, the gene encoding glucocorticoid receptor; GSI, gonadosomatic-index; GVBD, germinal vesicle break down; *hnf4a*, the gene encoding hepatocyte nuclear factor 4 alpha;

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