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Different dietary protein levels affect flesh quality, fatty acids and alter gene expression of Nrf2-mediated antioxidant enzymes in the muscle of grass carp (*Ctenopharyngodon idella*)

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Abbre viations

AAs, amino acids; IMP, 5'-inosinic acid; SFA, staturated fatty acid; UFA, unstaturated fatty acid; MUFA, monounstaturated fatty acid; PUFA, polyunstaturated fatty acid; ROS, reactive oxygen species; MDA, malondialdehyde; PC, protein carbonyl; CuZnSOD, copper, zinc superoxide dismutase; MnSOD, manganese superoxide dismutase; CAT, catalase; GPx, glutathione peroxidase; GST, glutathione-S-transferase; GR, glutathione reductase; GSH, glutathione; GCL, glutamate-cysteine ligase; Nrf2, NF-E2-related factor 2; Keap1, Kelch-like-ECH-associated protein 1; CK2, casein kinase 2.

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