

ABSTRACT

The present invention is related with polypeptides which show an increased
5 activity compared with tilapia growth hormone. These polypeptides are able to
stimulate growth, survival and the quality of fish and crustaceans larvae. Also,
they increase the defences against pathogens and stimulate parameters related
with the immune system of aquatic organisms. The polypeptides encoding genes
were cloned into a *Pichia pastoris* expression vector. This vector allows the
10 extracellular expression of the target proteins. The culture supernatants which
contain the target polypeptides were administrated by immersion baths or as a
feed additive to aquatic organisms.