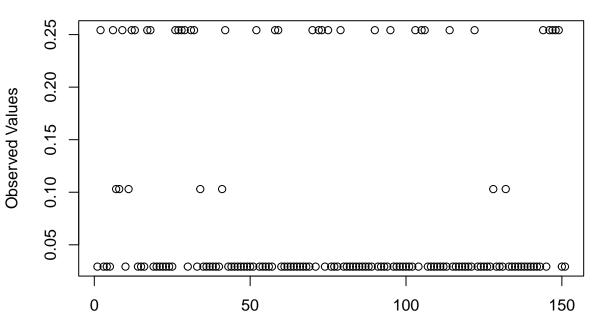Predicting likelihood of infection with Polynomial Regression