

Abstract (eng):

Over the past few decades, plant viruses and vectors derived from them have become not only an integral part of the work in laboratories, but also began to be used commercially for the production of vaccines, drugs, enzymes and other proteins / peptides. One of the most commonly used viruses for the expression of heterologous proteins is tobacco mosaic virus. In this work, I would like to focus on plant viruses and vectors derived therefrom. Compare it with other expression systems used in plants and describe how their benefits could be further used and combined with modern methods of cloning.

Key words: viral vector, expression, Tobacco mosaic virus, plant expression systems, Golden gate cloning