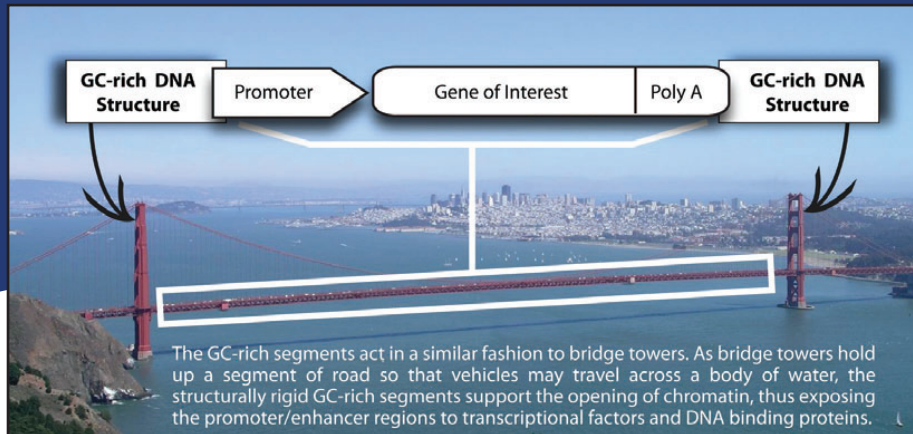


pMH Mammalian Expression Vector Series

Tested with over 20 recombinant proteins and Abs expressing at speeds from 50-120pg/cell/day

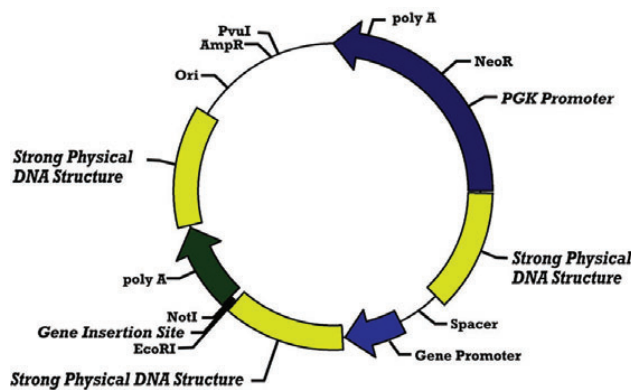
Introduction

The development of the CHO dhfr- cell lines to increase expression titers was the first revolution in mammalian gene expression to transform research into a commercial process. However, with it came a tedious and costly cell clone screening process. Our vector has surpassed current expression technologies by delivering commercial level protein titers after several stable gene transfections. This is the second revolution in the field of mammalian gene expression. Currently working in mammalian cells, our expression vector is believed to act through a common mechanism for possibly all eukaryotic gene expression. We are currently working on expression systems for insect, yeast, plant, fish, and chicken cells.



GC-rich DNA Physical Structure-based Mechanism

Our proprietary vector has the strongest physical structure known to date. It integrates randomly into the genome. Upon integration into the genome, it cannot be closed by condensed Chromatin thereby making the gene's promoter continuously accessible to transcriptional factors.



pMH 3 Vector Map

AmProtein's expression vector is available for licensing. Please contact info@amprotein.com for further information. Published Patent Application: WO/2008/091276

Plant Expression Vector pMJ2 Coming Soon!

Based on the GC-rich mechanism, we are now developing super-expression technology for the future development of molecular farming for pharmaceutical and biofuel production.



Western Blot showing successful expression of IL-1ra in Carrot cells using the pMJ2 plant expression vector.

pMH Vector Facts:

- Clear signals visible by dot blot from 96-well plates only 3 hours after change into serum-free suspension culture media.
- The vector reaches extremely high protein expression (50-120pg/cell/day) directly after several stable gene transfections in almost all protein (including traditionally difficult to express proteins) and antibody projects in fast-growing CHO-S cells.
- One-time commercial-level high protein expression in mammalian cells is no longer a problem. Robust mammalian host cell lines are immediately needed in order to match this expression technology.
- This expression technology places your protein or antibody project immediately into the stage of commercial cell clone robustness screening in a serum-free suspension environment and bypasses the stage of labor-intensive and costly high-titer expression screening.