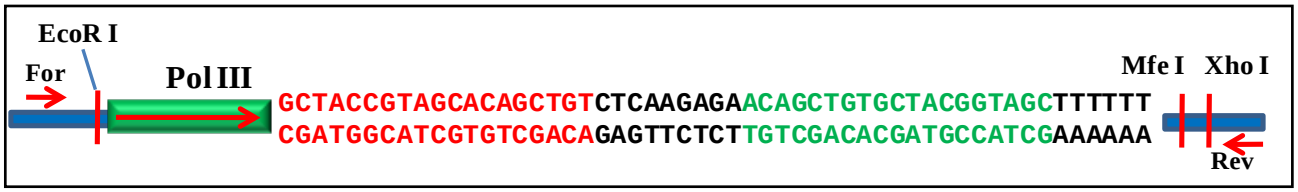
pTMH1-GFP-C Hygro Negative Control Vector

1. **Catalog #:** TMH1-004C

2. **Application:**
   This is a negative control vector carrying a shRNA without homology to known human and mouse genes. It can be used as a control of BIOGENOVA™ pTMH1-GFP Hygro vector. This control vector has a human H1 promoter to drive the shRNA expression with ampicillin resistant gene (Amp^r), functional in *E. coli*., and the Hygromycin B resistant gene (Hygro), functional in mammalian cells.

3. **Control shRNA Sequences:**



4. **Storage Condition:** -20ºC

5. **Packaging Information:** pTMH1-GFP-C Hygro control vector (Amp^r): 0.5 µg (25ng/µl).

   * For amplify this plasmid, transform competent E. coli with Ampicillin selection.

References:

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- Xu, X. M., Yoo, M. H., Carlson, B. A. and Hatfield, D. L. (2009) Simultaneous inhibition and subsequent re-expression of multiple genes. *Nature Protocols.* 4(9): 1338 - 1348.
- Gou,D. et al. (2007) A novel approach for the construction of multiple shRNA expression vectors. *J. Gene Med.* 9, 751-763.
- Dafny-Yelin,M., Chung,S.M., Frankman,E.L., & Tzfira,T. (2007) pSAT RNA interference vectors: a modular series for multiple gene down-regulation in plants. *Plant Physiol* 145, 1272-1281.
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- Wang,S., Shi,Z., Liu,W., Jules,J., & Feng,X. (2006) Development and validation of vectors containing multiple siRNA expression cassettes for maximizing the efficiency of gene silencing. BMC. *Biotechnol.* 6, 50.
- Jazag,A. et al. (2005) Single small-interfering RNA expression vector for silencing multiple transforming growth factor-beta pathway components. *Nucleic Acids Res.* 33, e131.

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