

pTMH1-C Hygro Negative Control Vector

1. Catalog #: TMH1-001C

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 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: -20°C

5. Packaging Information: pTMH1-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.
- ter, B.O., Konstantinova, P., Ceylan, M., & Berkhout, B. (2006) Silencing of HIV-1 with RNA interference: a multiple shRNA approach. *Mol. Ther.* 14, 883-892.
- 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.