**pAphVIII (pPH075)**

Deposited by Irina Sizova, Peter Hegemann lab, Humboldt-University Berlin, October 2017

*Streptomyces rimosus* aminoglycoside-5 ́- phosphotransferase *aphVIII* selection marker optimized to *C. reinhardtii* codon bias, controlled by the HSP70A/RBCS2 tandem promoter and RBCS2 3’ UTR.

Selection in *C. reinhardtii*: paromomycin (10-40 μg/ml)

Selection in *E.coli*: ampicillin

host strain: DH10b

Sequence map (GenBank; updated 09/2019): <http://chlamy.de/plasmids/pPH75/>

**Reference**

Greiner, A., Kelterborn, S., Evers, H., Kreimer, G., Sizova, I., and Hegemann, P.Targeting of photoreceptor genes via zinc-finger nucleases and CRISPR/Cas9 in *Chlamydomonas reinhardtii.* Plant Cell 30 (2017). <https://doi.org/10.1105/tpc.17.00659>

**Overview of all CRISPR/Cas9 plasmids from the Hegemann lab**

<http://www.chlamy.de/plasmids>

Visit [www.chlamy.de](http://www.chlamy.de) for more info or contact CRISPR@chlamy.de