**pHR-SpCas9 (pPH186)**

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Expression of *Streptococcus pyogenes* (Sp)Cas9 optimized to *C. reinhardtii* codon bias, controlled by the HSP70A/RBCS2 tandem promoter.

Selection in *C.reinhardtii*: -

Selection in *E.coli*: ampicillin

host strain: DH5α

Sequence map: <https://benchling.com/s/3XkMrsaP>

**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**

<https://www.chlamycollection.org/hegemann_lab>

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