**pHS-SpCas9 (pPH185)**

Deposited by Andre Greiner, Peter Hegemann lab, Humboldt-University Berlin, October 2017

Expression of *Streptococcus pyogenes* (Sp)Cas9 optimized to *C. reinhardtii* codon bias, controlled by the HSP70A heat-shock promoter.

Selection in *C.reinhardtii*: -

Selection in *E.coli*: ampicillin

host strain: DH5α

Sequence map: <https://benchling.com/s/V6Yn3QYk>

**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