

# PLASMIDS FOR LUCIFERASE EXPRESSION IN CRYPTOSPORIDIUM

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Plasmids for luciferase expression in Cryptosporidium

The plasmids listed below are for targeting insertion into the TK and UPRT loci in *Cryptosporidium parvum*. To generate the plasmids, the inventors modified a previously described nanoluciferase (Nluc) reporter fused to neomycin resistance (NeoR) by inserting a P2A skip peptide to increase luciferase expression and by adding GFP driven by the *C. parvum* actin promoter. The plasmids express either GFP or mCherry (mCH) as constitutive reporters.

Plasmid names:

TK-GFP-Nluc-P2A-neo-TK

UPRT-mCh-Nluc-P2A-neo-UPRT

**Publication: [A Stem-Cell-Derived Platform Enables Complete Cryptosporidium Development In Vitro and Genetic Tractability](#)**