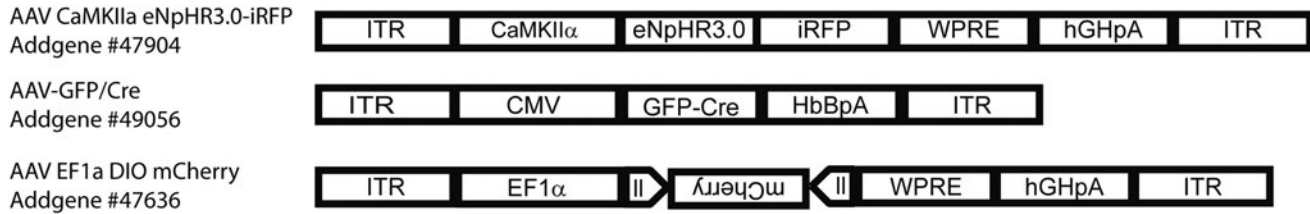


Supplementary Data



Feature	Description
ITR	Inverted terminal repeats of AAV serotype 2
CamKIIα	Ca ²⁺ /calmodulin-dependent protein kinase II alpha promoter
eNpHR3.0	engineered <i>Natronomonas pharaonis</i> halorhodopsin version 3.0
iRFP	Infrared Fluorescent Protein
WPRE	woodchuck hepatitis virus post-transcriptional regulatory element
hGHpA	human growth hormone polyadenylation signal
CMV	human cytomegalovirus immediate-early promoter
GFP-Cre	Green Fluorescent Protein fused to Cre recombinase
HbBpA	human β-globin polyadenylation signal
EF1α	human elongation factor 1 alpha promoter
II	double lox sites (loxP and lox2272)
mCherry	monomeric Cherry Fluorescent Protein

Supplementary Figure S1. AAV constructs used in experiments with the Addgene numbers.
