

Supporting Information

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This PDF file includes:

- Supplementary Text
- Figures S1 to S2
- Tables S1

Supplementary Text

Note S1: Extended Methodology

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Note S2: Additional Controls

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Supplementary Figures

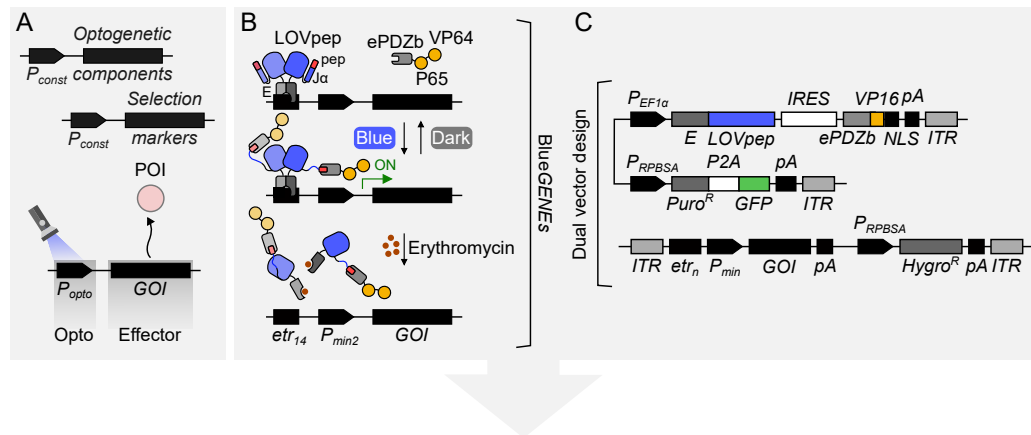


Figure S1: **Raw Western Blot Data.** This figure shows the unprocessed western blot data corresponding to **Figure 1** in the main manuscript.

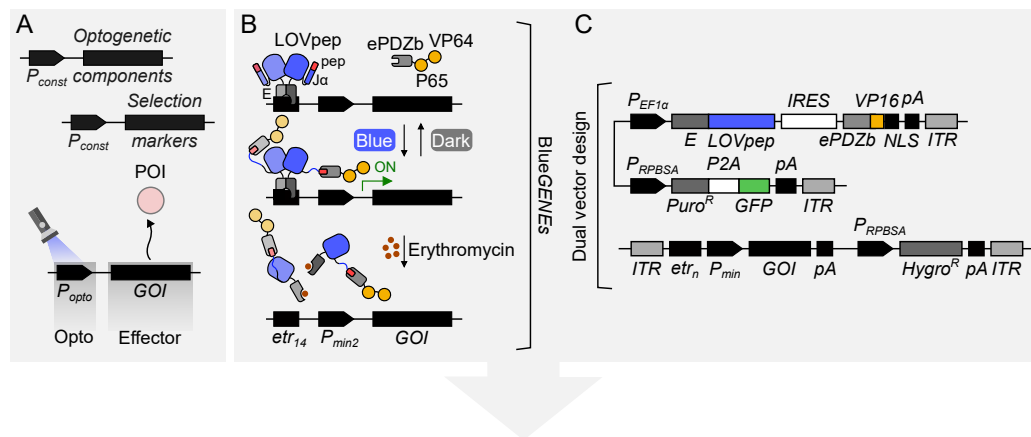


Figure S2: Title of Second Supplementary Figure. Histology samples at 40x magnification.

Supplementary Tables

Table S1: Primers used in this study. Sequences are listed 5' to 3'.

Gene	Forward Sequence	Reverse Sequence
GAPDH	5'-ACTG...-3'	5'-TGAC...-3'
ACTB	5'-GGAA...-3'	5'-TTCC...-3'

Supplementary References

1. Smith SJ, Johnson M. Deep-tissue imaging with transparent mice using light-sheet microscopy. *Nature Methods*. 2024;21:112–20. <https://doi.org/10.1038/s41592-024-01000-x>.
2. Doe J, Ray S. Quantum coherence in photosynthesis at room temperature. *Nature Communications*. 2025;16:4501. <https://doi.org/10.1038/s41467-025-22105-z>.
3. Chen L, Muller H. The senescence-associated secretory phenotype in aging neurons. *Cell*. 2025;188:890–912. <https://doi.org/10.1016/j.cell.2025.01.012>.
4. Wilson R, Thompson E. Advanced statistical methods for biological data analysis. *Bioinformatics*. 2023;39:1234–45. <https://doi.org/10.1093/bioinformatics/btad123>.