

**STOCK** *Gt(ROSA)26Sor<sup>tm5(ACTB-tTA)Luo</sup>* *Igs7<sup>tm94.1(tetO-GCaMP6s)Hze</sup>* /J

Stock No: **024112** | Ai94(TITL-GCaMP6s)-D;ROSA26-ZtTA

 Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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expression to be tightly regulated), as well as a Cre-dependent tetracycline-controlled transactivator protein (tTA) inserted into the *Gt(ROSA)26Sor* locus on chromosome 6. After removal of the floxed-STOP cassette by Cre recombinase, resulting mice have doxycycline-inducible/reversible expression of GCaMP6 slow variant calcium indicator (GCaMP6s; an ultrasensitive detector of single neuronal action potentials with slower decay and response kinetics). Following subsequent calcium binding (such as neuronal activation), increased EGFP fluorescence is observed in those cells.

### Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science

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## GENETIC OVERVIEW

Genetic Background Generation

### *Gt(ROSA)26Sor<sup>tm5(ACTB-tTA)Luo</sup>*

Alele Type	Gene Symbol	Gene Name
Targeted (Reporter, Transactivator)	<i>Gt(ROSA)26Sor</i>	gene trap ROSA 26, Philippe Soriano

### *Igs7<sup>tm94.1(tetO-GCaMP6s)Hze</sup>*

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), Reporter, Inducible)	<i>Igs7</i>	intergenic site 7

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