

# AB-CRYSTALLIN (CRYAB) R120G MUTANT KNOCK-IN MICE

---

[Andley, Usha](#)

[Poranki, Deepika](#)

T-018700

Researchers developed these knock-in mice by using homologous recombination to clone the R120G mutation into exon 3 of the  $\alpha$ B-crystallin gene (*cryab*).  $\alpha$ B-crystallin (*cryAB*) helps to maintain protein stability in the eye lens, which is necessary for transparency. The R120G mutation causes aggregation that results in early-onset cataracts, and the *cryAB* R120G mutant knock-in mice consequently can be used as a model for studying therapies for treating and reversing cataracts.

## Publications

[A Knock-In Mouse Model for the R120G Mutation of  \$\alpha\$ B-Crystallin Recapitulates Human Hereditary Myopathy and Cataracts](#)

[Mechanism of Action of VP1-001 in \*cryAB\*\(R120G\)-Associated and Age-Related Cataracts](#)