

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

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Researchers developed these knock-in mice by using homologous recombination to clone the R120G mutation into exon 3 of the α B-crystallin gene (cryab). α 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](#)