

## Genes associated with Leber congenital amaurosis (LCA)

Type of LCA	Gene Affected	Protein name	Ongoing clinical trial(s)
LCA1	GUCY2D	Retinal guanylate cyclase-1 (retGC1)	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>
LCA2	RPE65	Retinal pigment epithelium-specific 65 kDa protein (also known as retinoid isomerohydrolase)	<ol style="list-style-type: none"> <li>1. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT00481546">NCT00481546</a></li> <li>2. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT02781480">NCT02781480</a></li> <li>3. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT02946879">NCT02946879</a></li> <li>4. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT00516477">NCT00516477</a></li> <li>5. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT00999609">NCT00999609</a></li> <li>6. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT03597399">NCT03597399</a></li> <li>7. <a href="https://ClinicalTrials.gov/ct2/show/study/NCT02714816">NCT02714816</a></li> </ol>
LCA3	SPATA7	SPATA-7 (Spermatogenesis-associated protein 7)	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>
LCA4	AIPL1	AIPL1 (also called aryl hydrocarbon receptor interacting protein like 1)	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>
LCA5	LCA5	Lebercilin	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>
LCA6	RPGRIP1	Retinitis pigmentosa GTPase regulator-interacting protein 1	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>
LCA7	CRX	Cone-rod homeobox protein	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>
LCA8	CRB1	Crumbs homolog 1	None currently registered on <a href="https://ClinicalTrials.gov">ClinicalTrials.gov</a>

<b>LCA9</b>	NMNAT1	Nicotinamide nucleotide adenylyltransferase 1	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA10</b>	CEP290	Centrosomal Protein 290	<a href="https://clinicaltrials.gov/ct2/show/study/NCT03396042">NCT03396042</a> <a href="https://clinicaltrials.gov/ct2/show/study/NCT03140969">NCT03140969</a>
<b>LCA11</b>	IMPDH1	Inosine Monophosphate Dehydrogenase 1	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA12</b>	RD3	Retinal Degeneration 3	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA13</b>	RDH12	Retinol Dehydrogenase 12	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA14</b>	LRAT	Lecithin retinol acyltransferase	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA15</b>	TULP1	Tubby-like protein 1	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA16</b>	KCNJ13	Potassium Voltage-Gated Channel Subfamily J Member 13	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA17</b>	GDF6	Growth/differentiation factor-6	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>
<b>LCA18</b>	PRPH2	Peripherin 2	None currently registered on <a href="https://clinicaltrials.gov">ClinicalTrials.gov</a>