

**Supplementary Table S6: Quantitative analysis of SOD expression**

Type of analysis	Gene	Expression	Std. Error	95% C.I.	P value	Regulation
CL (n=12) Vs CT (n=54)	SOD1	0.149	0.063 - 0.376	0.040 - 0.953	0.00	Down
	SOD2	1.102	0.203 - 7.727	0.130 - 23.918	0.70	
	SOD3	0.581	0.058 - 4.925	0.031 - 57.680	0.33	
CL (n=12) Vs NC(n=18)	SOD1	0.203	0.077 - 0.426	0.029 - 0.540	0.00	Down
	SOD2	1.016	0.186 - 7.464	0.173 - 11.236	0.96	
	SOD3	5.696	0.883 - 28.641	0.637 - 59.302	0.00	Up
CL (n=12) Vs CC (n=18)	SOD1	0.153	0.065 - 0.507	0.048 - 1.424	0.00	Down
	SOD2	1.482	0.237 - 8.938	0.133 - 33.128	0.38	
	SOD3	0.095	0.045 - 0.275	0.011 - 0.306	0.00	Down
CL (n=12) Vs PSC(n=18)	SOD1	0.106	0.051 - 0.233	0.032 - 0.299	0.00	Down
	SOD2	0.89	0.202 - 7.674	0.112 - 10.411	0.75	
	SOD3	0.363	0.129 - 1.021	0.046 - 1.693	0.00	Down

Results were obtained from REST 2009 V2.0.13 tool. CL: clear lens, CT: cataract lens, NC: nuclear cataract, CC: cortical cataract, PSC: posterior subcapsular cataract, LE: lens epithelium, LN: lens nucleus