## cG-Gated channels

	Parameter	Value/measure		Source	Species
ch1	Hill coefficient	2.8	}	Taylor & Baylor, 1995	salamande
ch2	$K_d$	17.0	μΜ	Pugh inactivation model	macaque
ch3	Salamander channel density	650	$\mu m^2/s$	Karpen et al., 1992	salamande
ch4	Salamander OS diameter	11.0	μm	Pugh & Lamb, 1993, Fig. 1	salamande
ch5	Macaque/salamander OS diameter	5.5	1	Calculated: os2, ch4	various
ch6	Channel density	3575	$\mu m^2/s$	Calculated: ch3, ch5	macaque
ch7	Channel/unit OS area	629	channels	Calculated: os9, ch6	various
ch8	Channel current	-3.0	fA	Yau & Baylor, 1989	amphibian, reptile
ch9	Total # channels	$5.62 \times 10^{5}$	channels	Calculated: os6, ch6	macaque
ch10	Channel concentrations/cytoplasm	23.7	μΜ	Calculated: os13, ch9	macaque
ch11	Channel/dark current	$1.13 \times 10^{4}$	channels	Calculated: ch8, cv1	various
ch12	Channel/photon	-233	channels	Calculated: ch8, cv3	various
ch13	#PDE/#channels	5		Calculated: d3, ch9	various
ch14	Fraction open in dark	2.02	%	Calculated: ch9, ch11	various
ch16	Fraction open 1 photon peak	1.98	%	Calculated: ch14, cv3	various
ch16	Free cG in dark	4.25	μΜ	Calculated: ch1, ch2, ch14	various
ch17	cG at 1 photon peak	4.22	μΜ	Calculated: ch1, ch2, ch16	various
ch18	Change in cG at 1 photon peak	-0.0321	$\mu M$	Calculated: ch16, ch17	various
ch19	Change in cG at 1 photon peak	-1569	molecules	Calculated: os13, ch18, ch23	various
ch20	Change in cG at 1 photon peak	-0.76	%	Calculated: ch16, ch18	various
ch21	Microscopic $K_d$	18.0	μΜ	Karpen et al., 1988, p. 1290	salamander
ch22	Bound cG in dark	4.5	μΜ	Calculated: ch10, ch16, ch21	various
ch23	Channel buffer power	2.1		Calculated: ch16, ch22	various
	Fraction open in dark	1	%	Yau & Nakatani, 1985	toad
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	Fraction open in dark	1–2	%	Yau and Baylor, 1989	toad
	Fraction open in dark	0.7-3	%	Pugh & Lamb, 1990	salamander