

Organisms	Redox sensor	Function	Redox sensitive structure	ROS/oxidant/other sensed
<b><u>Prokariotic cells</u></b>	<b>Oxy - R</b>	transcription factor	active cys, iron centres	peroxides
	<b>Sox - R</b>	transcription factor	active cys, iron centres	superoxide
	<b>FNR</b>	oxygen sensor	[Fe-S] cluster	O <sub>2</sub> , iron
	<b>Hsp33</b>	chaperone	cys-regulated coordination of Zn	H <sub>2</sub> O <sub>2</sub> , hypochlorite
	<b>RsrA</b>	anti-sigma R transcription factor	cys-regulated coordination of Zn	diamide
<b><u>Yeast</u></b>	<b>Orp-1</b>	GPX like enzyme acting on TF Yap1	Cys - 36	H <sub>2</sub> O <sub>2</sub>
	<b>PRX-Tpx1</b>	PRX like enzyme acting on TF Pap1 chaperone Sty1	Cys - 35	H <sub>2</sub> O <sub>2</sub>