

Panel	2.5 mM Paraquat	Genotype	R1	R2	R3	R1, R2, R3		Pooled	P-value						
			MST n (x)	MST n (x)	MST n (x)	Avg MST	SEM	MST n (x)	vs sod-1(+)	vs sod-1WT <sup>M</sup>	vs sod-1WT <sup>C</sup>	vs hSOD1WT-YFP	vs sod-1(-); hSOD1WT-YFP	vs sod-1(-)	
Fig S1A	-	<i>sod-1WT<sup>M</sup></i>	11 30 (13)	17 30 (8)	13 30 (7)	13.67	1.76	13 90 (28)							
	-	<i>sod-1A4V<sup>M</sup></i>	11 30 (8)	13 30 (11)	7 30 (9)	10.33	1.76	11 90 (28)		<0.0001					
	-	<i>sod-1H71Y<sup>M</sup></i>	7 30 (5)	13 30 (7)	9 30 (8)	9.67	1.76	9 90 (20)		0.0051					
	-	<i>sod-1G85R<sup>M</sup></i>	13 30 (11)	13 30 (10)	11 30 (9)	12.33	0.67	13 90 (30)		0.6378					
	-	<i>empty<sup>M</sup></i>	9 30 (6)	11 30 (11)	9 30 (11)	9.67	0.67	9 90 (28)		0.0309					
Fig S1B	-	<i>sod-1(+)</i>	12 30 (19)	12 30 (4)	12 30 (7)	12.00	0.00	12 90 (30)							
	-	<i>sod-1WT<sup>C</sup></i>	14 30 (13)	14 30 (11)	14 30 (8)	14.00	0.00	14 90 (32)	0.8594						
	-	<i>sod-1L84V<sup>C</sup></i>	10 30 (12)	10 30 (5)	12 30 (8)	10.67	0.67	12 90 (25)			0.02				
	-	<i>sod-1G85R<sup>C</sup></i>	18 30 (7)	16 30 (7)	14 30 (10)	16.00	1.15	16 90 (24)			0.3181				
	-	<i>sod-1G93A<sup>C</sup></i>	10 30 (13)	8 30 (2)	12 30 (7)	10.00	1.15	12 90 (22)			0.0296				
Fig S1C	-	<i>sod-1(+)</i>	10 30 (24)	14 30 (17)	14 30 (10)	12.67	1.33	12 90 (51)							
	-	<i>hSOD1WT-YFP<sup>OE</sup></i>	10 30 (14)	14 30 (11)	16 30 (10)	13.33	1.76	14 90 (35)	0.3576						
	-	<i>hSOD1G85R-YFP<sup>OE</sup></i>	10 30 (13)	12 30 (12)	7 30 (4)	9.67	1.45	10 90 (29)				0.111			
Fig S1D	-	<i>sod-1(+)</i>	12 30 (19)	12 30 (4)	12 30 (7)	12.00	0.00	12 90 (30)							
	-	<i>sod-1(-)</i>	12 30 (6)	10 30 (3)	10 30 (4)	10.67	0.67	10 90 (13)	0.0418						
	-	<i>sod-1(-); hSOD1WT-YFP<sup>OE</sup></i>	12 30 (11)	10 30 (9)	14 30 (11)	12.00	1.15	12 90 (31)							0.442
	-	<i>sod-1(-); hSOD1G85R-YFP<sup>OE</sup></i>	16 30 (22)	14 30 (19)	16 30 (21)	15.33	0.67	16 90 (62)					0.0038		0.022
Fig S2A	+	<i>sod-1WT<sup>M</sup></i>	8 30 (23)	7 30 (29)	7 30 (12)	7.33	0.33	7 90 (64)							
	+	<i>sod-1A4V<sup>M</sup></i>	10 30 (29)	9 30 (26)	9 30 (20)	9.33	0.33	9 90 (75)		0.0001					
	+	<i>sod-1H71Y<sup>M</sup></i>	3 30 (20)	Und 30 (27)	3 30 (25)	3.00	0.00	3 90 (72)		<0.0001					
	+	<i>sod-1G85R<sup>M</sup></i>	3 30 (18)	Und 30 (21)	4 30 (27)	3.50	0.50	3 90 (66)		<0.0001					
	+	<i>empty<sup>M</sup></i>	3 30 (25)	3 30 (22)	4 30 (26)	3.33	0.33	3 90 (73)		<0.0001					
Fig S2B	+	<i>sod-1(+)</i>	Und 30 (28)	9 30 (27)	9 30 (19)	9.00	0.00	9 90 (74)							
	+	<i>sod-1(-)</i>	3 30 (19)	4 30 (24)	3 30 (24)	3.33	0.33	3 90 (67)	<0.0001						
	+	<i>sod-1WT<sup>C</sup></i>	9 30 (20)	7 30 (24)	Und 30 (28)	8.00	1.00	9 90 (72)	0.7472						
	+	<i>sod-1L84V<sup>C</sup></i>	9 30 (17)	9 30 (21)	5 30 (16)	7.67	1.33	8 90 (54)			0.0032				
	+	<i>sod-1G85R<sup>C</sup></i>	3 20 (7)	6 30 (18)	3 30 (20)	4.00	1.00	4 90 (45)			<0.0001				
	+	<i>sod-1G93A<sup>C</sup></i>	7 30 (15)	8 30 (22)	7 30 (22)	7.33	0.33	7 90 (59)			0.0071				
Fig S2C	+	<i>sod-1(+)</i>	7 30 (20)	7 30 (27)	6 30 (21)	6.67	0.33	7 90 (68)							
	+	<i>hSOD1WT-YFP<sup>OE</sup></i>	Und 30 (28)	6 30 (28)	6 30 (24)	6.00	0.00	6 90 (80)	0.0098						
	+	<i>hSOD1G85R-YFP<sup>OE</sup></i>	Und 30 (27)	2 30 (26)	3 30 (24)	2.50	0.50	3 90 (77)				<0.0001			
Fig S2D	+	<i>sod-1(+)</i>	9 30 (19)	9 30 (16)	9 30 (22)	9.00	0.00	9 90 (57)							
	+	<i>sod-1(-)</i>	3 30 (24)	3 30 (21)	Und 30 (30)	3.00	0.00	3 90 (75)	<0.0001						
	+	<i>sod-1(-); hSOD1WT-YFP<sup>OE</sup></i>	4 30 (27)	3 30 (23)	5 30 (25)	4.00	0.58	4 90 (75)							0.042
	+	<i>sod-1(-); hSOD1G85R-YFP<sup>OE</sup></i>	3 30 (13)	3 30 (7)	2 30 (9)	2.67	0.33	3 90 (29)					0.0002		0.0713