

Table S1. “Peroxiscan” classification and BLAST (blastp) results for different *Symbiodinium* peroxidase isoforms (<http://peroxibase.toulouse.inra.fr>).

Isoform	Peroxisbase class	Top BLAST hit	Peroxisbase entry ID	Identity	E-value
SymAPX1	Hybrid ascorbate-cytochrome c peroxidase	<i>Thalassiosira pseudonana</i>	2557	56-61%	10 <sup>-101</sup> to 10 <sup>-107</sup>
SymAPX2	Hybrid ascorbate-cytochrome c peroxidase	<i>Thalassiosira pseudonana</i>	2557	73-74%	10 <sup>-136</sup> to 10 <sup>-142</sup>
SymAPX3	Ascorbate peroxidase	<i>Karlodinium micrum</i>	3944	72-73%	10 <sup>-164</sup> to 10 <sup>-167</sup>
SymAPX4	Ascorbate peroxidase	<i>Karlodinium micrum</i>	3944	62%	10 <sup>-128</sup>
SymAPX5	Ascorbate peroxidase	<i>Karlodinium micrum</i>	3944	56%	10 <sup>-116</sup> to 1E <sup>-118</sup>
SymAPX6	Ascorbate peroxidase related	<i>Thalassiosira pseudonana</i>	2559	37%	10 <sup>-47</sup>
SymKatG1	Catalase peroxidase	<i>Volvox carteri</i>	8373	36%	10 <sup>-80</sup>
SymKatG2	Catalase peroxidase	<i>Karenia brevis</i>	2527	53%	10 <sup>-153</sup>