>N.vectensis catalase
TCCTTCTCTGATCGTCGTGCAAGGAGAAAGTCGGCCGAATCCATTTTTTGTGTGGAAAACATCTGAGTTT
GCTTTGAACATGGCGTCCAAATGCAAGGCCTCGGAGCAGCTGTCTGACTATGCTAAATCTCAATCGAATG
TGGCAGGCCTGACCACCAGTGCTGGTATCCCTGTTGACACGAATGCAAGCAGCATGACGGCTGGCCCCCG
CGGACCCCTCCTTATGCAAGACGCCCAGTTCATGGACATCATGTCTCATTTTGACCATGAGAGGATCCCT
GAGCGAGTCGTCCATGCCAAGGGCGGCGGTGCGTTTGGGTACTTTGAGGTTACCAATGATATCACTAAGT
ACTGCAAGGCCAGGATCTTTGAAACTGTTGGGAAGAAGACTCCATGTCTGGTCAGGTTCTCCACTGTGGG
TGGTGAGGCTGGAAGTGCTGATACAGCCAGAGATCCCCGTGGTTTCGCCATGAAGTTCTACACAGATGAG
GGCAACTGGGACCTTGTCGGAAACAACACCCCTATCTTCTTCATCCGGGACCCAATTCTGTTCCCCAGTT
TTATTCATACGCAGAAGAGAAATCCTGTTACACATTTGAAAGGATGCCACATGTTTTGGGACTTTATCAC
TCTTCGTCCTGAGACCACCCACCAGACGTCTTTCCTGTTCAGTGACCGAGGCATCCCTGATGGGTTCCGC
CACATGAACGGCTATGGAAGCCACACCTTCAAGATGGTGAACAGCAAGGGGAAGGCTGTGTACTGCAAGT
TCCATGTGAAGACGGACCAGGGAATCAAGAATTGCCCAGTCGAGAGAGCTACAGAGCTTGCAGGCACCGA
CCCAGACTACAGCACTAGGGATCTTTATAATGCTATTGCTGAGGGGAACTATCCATCTTGGACCATGTAC
ATCCAAGTGATGACATTTGCTGAAGCAGAGAGCCACAGGTTTAACCCATTTGACCTTACCAAGATCTGGC
CCCATGCAGAGTTCCCTCTCATCCCTGTTGGAAAGATGGTGCTGAATAGAAACCCCAAGAACTACTTTGC
GGAGATTGAACAGAGTGCGTTCAACCCAGCTAGCATGGTCCCAGGGATTGAGGCTTCCCCTGATAAGATG
CTGCAGGGTCGCTTGTTTTCCTACCATGACACCCACCTTCACCGACTTGGCACAAACTACACCCAGCTTC
CAGTCAACTGTCCATTCAGGACCCGTGTTGCCAACTACCAGCGGGATGGACCCCAGACATTTGACAATCA
GGAAGGTGCGCCAAACTACTTCCCCAACAGCTTCTCAGGCCCCATGGATGATGTGGCCAAGTACTCCCCT
TCTCAATTCACTGTTTCTGGGGACTGCGCCCGCTACAACAGTGCTGATGATGACAATTTTACCCAAGTGA
CAACCTTTTGGACTAAAGTGTTAAATGATGAAGAGCGCATGCGGCTAGTAAAGAACATCGCTGGCCACGT
GAAGGACGCCAAGGACTTTATCCAAAAACGATGCGTACAACAATTCACTAAGGTTCACCCAGACTTCGGA
AATGGAATTGCGCGAGAGCTGCAAAAACATCAAAAGAGTGCGTCTTCGGTCGCAGCACACGCCGCCCTCT
GAGTTATTCACGTGCACTTCACGTGACGTGTTCTTAAACAATAGCAAACGGTAGACGTAAATGGTTATGG
TACTTCTGGCCTCACGATACCCGTGTCTGGTCTTCCTCGTGTCTGTGTAGTGTAGCCATTTAGTGGTGTG
GCGATTGCATGTGGCGAGCACGTGATAAAAAACAGGTTAAACAAGAATGAACACTTGGCTAANAAATGGT
TAAACAAGAAATAATTGTTGTTGTAGTGATACGTTAGTATCATTATCAGTACAAATGATAAACACGTGAT
TGACAAGAGGTTAGACAGGATGAAAACGTGATTTGAAACAGGTTAGACAGGAAATCACTGACGCTGTAGT
GATGCTGTGTATCAGTGAACATATGATGAACACAAGAGTATAAACACAGCAAGTGATCGTAGCGT

Fig. S1. (A) Catalase nucleotide sequence from *N. vectensis*, assembled in silico from multiple overlapping expressed sequence tags. (B) Predicted protein sequence for *N. vectensis* catalase aligned to catalase from the anemone *A. viridis* (accession number AAZ50618).

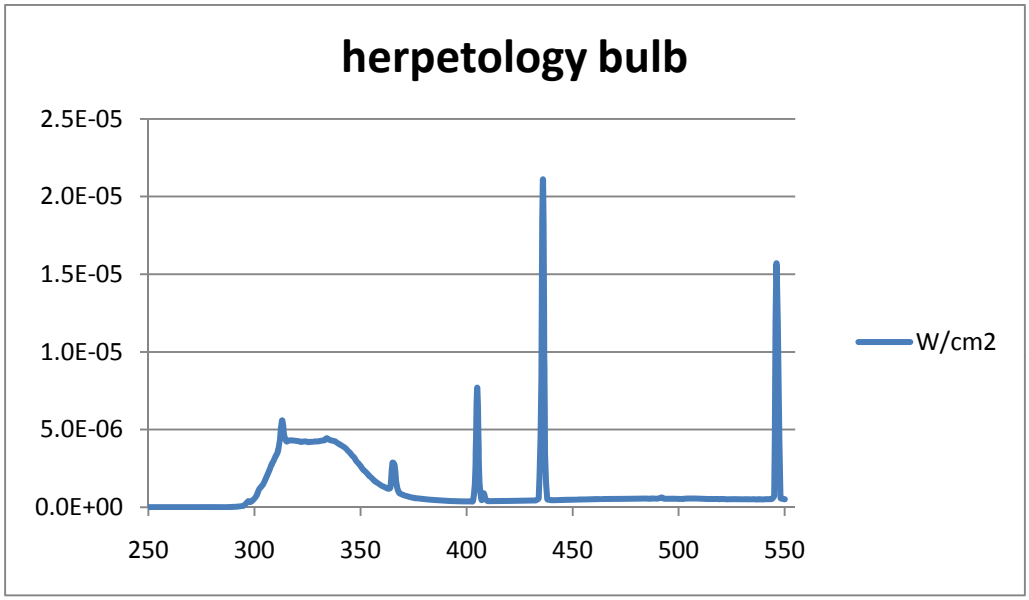

Fig. S2. Emission spectrum for the Zilla Desert Series fluorescent T5 bulb. Wavelength (nm) is shown on the *x*-axis, and irradiance (W cm^{-2}) on the *y*-axis.

Supplementary Table 1: Primers used for quantitative PCR. F and R designate forward and reverse primers respectively.

NvCuZnSOD1	F: 5'-GGGTGTTTGTTGCCTGGTAG-3'
(JGI 234825)	R: 5'-TCTGAGAGTACAAGGGCCATC-3'
NvCuZnSOD2	F: 5'-TCACACTTGTGGGAGAGCAC-3'
(JGI 165732)	R: 5'-TCCTCGTCAGCATGAACAAC-3'
NvCuZnSOD3	F: 5'-ATTACCAAGGGGTGCCAAAG-3'
(JGI 3582)	R: 5'-GACCACACATTCCCAAGGTC-3'
NvMnSOD1	F: 5'- GAAGCTCAGGCCAAAGGTG -3'
(JGI 236349)	R: 5'-ACCACCTCCATTGAATTTGAC -3'
NvMnSOD2	F: 5'-AGTGGAGAGAATCGGGAAAAG-3'
(JGI 94316)	R: 5'-CTCCACCATTGTTGATCACG-3'
NvCCS	F: 5'-CGTTTGTCCGTGTTTCAATG-3'
(JGI 227361)	R: 5'-TTTCCACAGCGAATTCCATC-3'
NvCatalase[1]	F: 5'-AAGGTGGGTGTCATGGTAGG-3'
	R: 5'-TGCGGAGATTGAACAGAGTG-3'
NvHSP70	F: 5'-TCATCCAGCACTGAAGCAAG-3'
(JGI 234533)	R: 5'- CTCGGCTGATTTTCGTGTAG-3'
NvHSC71	F: 5'-TCGATGATCCTGGGGTAAAG-3'
(JGI 195315)	R: 5'-CCTGCCTCGTTCACTACCTC-3'
Nv18S	F: 5'-GACTCAACACGGGGAAACTC-3'
(JGI 158236)	R: 5'-GCACCACCACCATAGAATC-3'
NvEF1α	F: 5'-GAGAAGGAATCCAGCGAGATC -3'
(JGI 247215)	R: 5'-TAAGGTCTCGAACTTCCACAGG -3'

[1] NvCatalase is composed of JGI predicted proteins 103289 and 103340. See text and Fig. S1.