Supplementary file 2: Summary of fluorescent dyes and their excitation and emission wavelengths used for confocal microscopy

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| Labelled structure, activity or molecule | Dye | Excitation wavelength | Emission wavelength |
| Host and symbiont nuclei | 1.5μM DAPI | 405nm | 420-480nm |
| Dinoflagellates | None (detection of autofluorescence) | 543nm | 600-700nm |
| Host symbiosome plasma membranes | DilC lipophilic membrane stain (Molecular probes) | 549nm | 565nm |
| TSR domain containing proteins | Alexa fluor546 goat anti-rabbit secondary antibody (Molecular probes) | 556nm | 573nm |