**TABLE S1** List of kits used for measurement of oxidation extent and enzyme activity.

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| **Terms** |  | **Information of kit** |
| Radish |
| CAT  | Catalase (CAT) Assay Kit (BC0200, Solarbio, Beijing, China) |
| PAL  | Phenylalanine ammonialyase (PAL) Assay Kit (BC0210, Solarbio, Beijing, China) |
| SOD | Superoxide dismutase (SOD) Assay Kit (BC0170, Solarbio, Beijing, China) |
| β-1,3-GA  | β- 1,3-glucanase (β-1,3-GA) Assay Kit (BC0365, Solarbio, Beijing, China) |
| Chitinase | Chitinase Assay Kit (BC0820, Solarbio, Beijing, China) |
| Proline | Pproline Assay Kit (BC0290, Solarbio, Beijing, China) |
| MDA | Micro Malondialdehyde (MDA) Assay Kit (BC0025, Solarbio, Beijing, China) |
| Betaine | Betaine Assay Kit (BC3130, Solarbio, Beijing, China) |
| *A. brassicae* |
| GSH-Px | Glutathione peroxidase (GSH-Px) Assay Kit (A005-1-2, Jiancheng, Nanjing, Jiangsu, China) |
| CAT | Catalase (CAT) Assay Kit (Visible light) (A007-1-1, Jiancheng, Nanjing, Jiangsu, China) |
| GT | Glycosyl Transferases ELISA Assay Kit (ZK-P7486, Ziker, Shenzhen, Guangdong, China) |
| PCWDES | Fungus cell Wall degrading enzymes（PCWDES）ELISA Assay Kit (ZK-F653, Ziker, Shenzhen, Guangdong, China ) |