Supplemental Table S1. Enzyme kinetic analysis for *Am*GSTF1a and *Am*GSTF1c with the substrates 1-chloro-2,4-dinitrobenzene (CDNB) and cumene hydroperoxide (CuOOH) Enzymes were assayed for activity towards CDNB within the CDNB concentration range 0-5 mM and cumene 0-3 mM.. Measurements were performed in technical triplicate. Values are shown as mean ± SD (n = 3). Vmax and KM values were calculated by hyperbolic regression using the HYPER-32 program.

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|  | Kinetic parameters |
| Enzyme | Vmax (CDNB)(nmol s-1 mg-1 protein) | KM (CDNB)(mM) | Specific activitya(nmol s-1 mg-1 protein) |
| *Am*GSTF1a | 317 ± 40 | 3.03 ± 0.7 | 88.0 ± 7 |
| *Am*GSTF1c | N/A | > 5 | 29.9 ± 1 |

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| Enzyme | Vmax (CuOOH)(nmol s-1 mg-1 protein) | KM (CuOOH)(mM) | Specific activitya(nmol s-1 mg-1 protein) |
| *Am*GSTF1a | 128 ± 11 | 0.745 ± 0.2 | 76.5 ± 1 |
| *Am*GSTF1c | 135 ± 30 | 1.63 ± 0.8 | 51.1 ± 1 |

N/A – not applicable. a – specific activities calculated at a concentration of 1.25 mM (CDNB) and 1.2 mM cumen hydroperoxide.