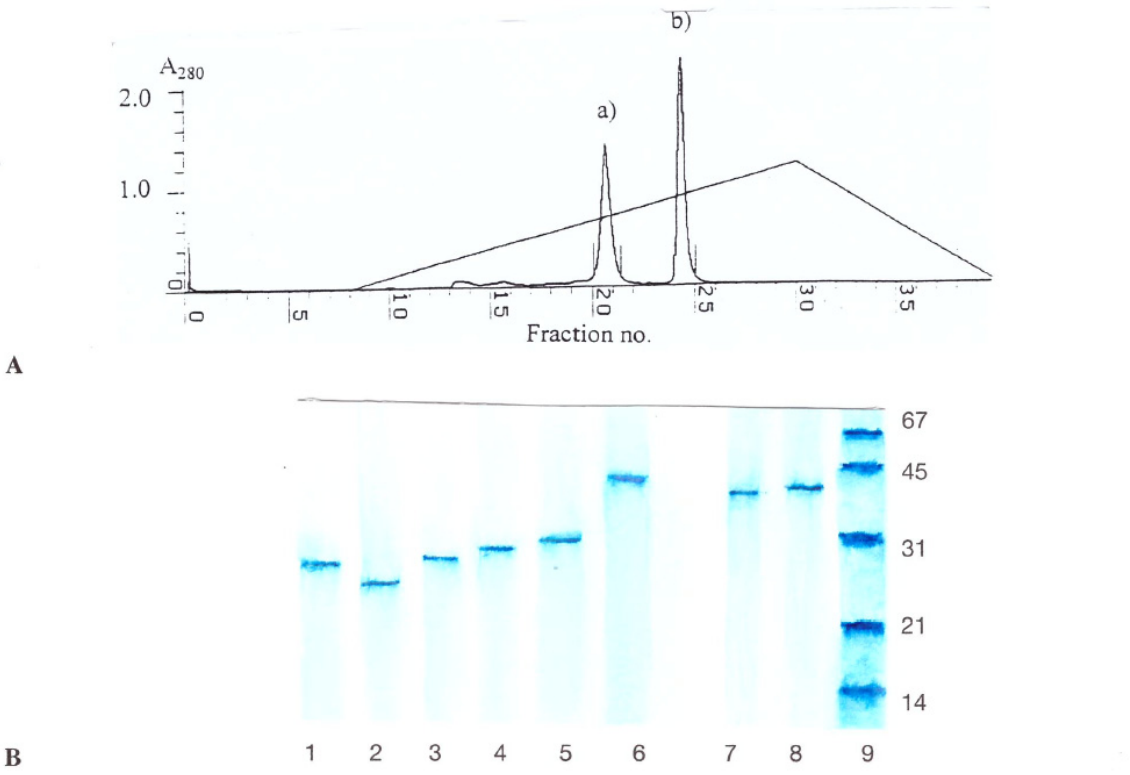
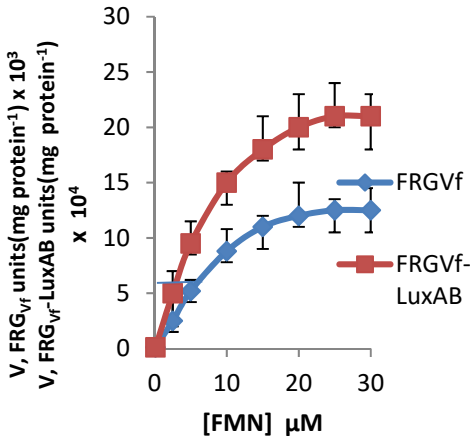
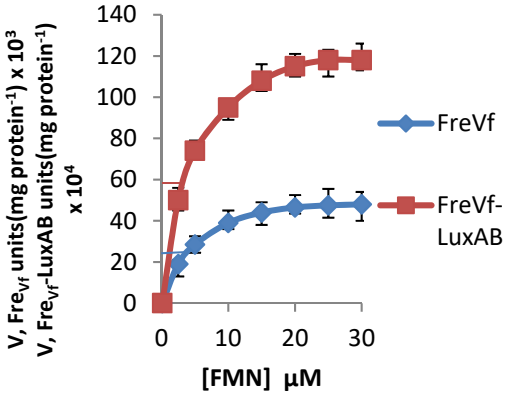


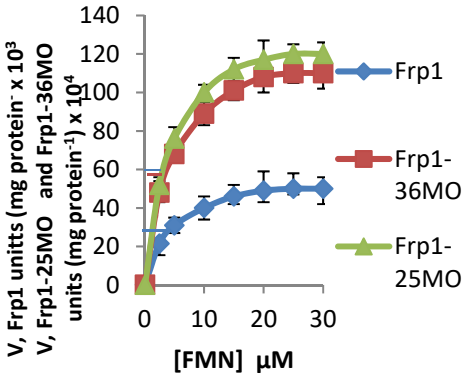
Supplementary Figure S1A and B. Final step purifications of both tested DKCMO isoenzymes, and all tested FRs. (A): A_{280} trace of the 2,5-DKCMO (a) and 3,6-DKCMO (b) oxygenating subunits after being loaded onto an FPLC Mono-Q column and eluted with a linear gradient of 0–0.6 M KCl in 21 mM phosphate buffer pH 7.1 as the final step purification. (B): SDS-PAGE showing purification of each of the FRs.



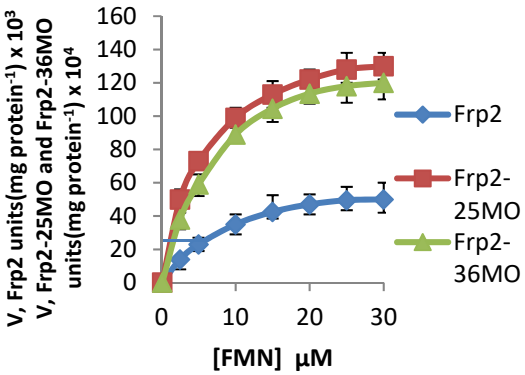
(A)



(B)



(C)



(D)

Supplementary Figure S2A-D. Michaelis-Menten plots of the kinetic data for the studied complementary single-enzyme and coupled -enzyme assays.
(A). Plotted data for FRG_{Vf} after assay alone (single-enzyme assays) or in combination with highly purified LuxAB luciferase (coupled-enzyme assay).
(B). Plotted data for Fre_{Vf} after assay alone (single-enzyme assays) or in combination with highly purified LuxAB luciferase (coupled-enzyme assay).
(C). Plotted data for Frp1 after assay alone (single-enzyme assays) or in combination with either highly purified 2,5-DKCMO or 3,6-DKCMO (coupled-enzyme assays).
(D). Plotted data for Frp2 after assay alone (single-enzyme assays) or in combination with either highly purified 2,5-DKCMO or 3,6-DKCMO (coupled-enzyme assays).
In each case the value of *v* asymptotically approached the corresponding V_{max} value.