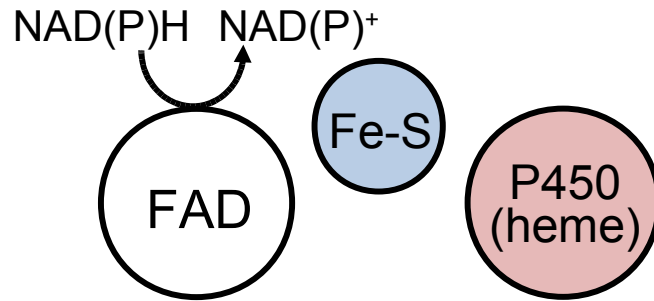
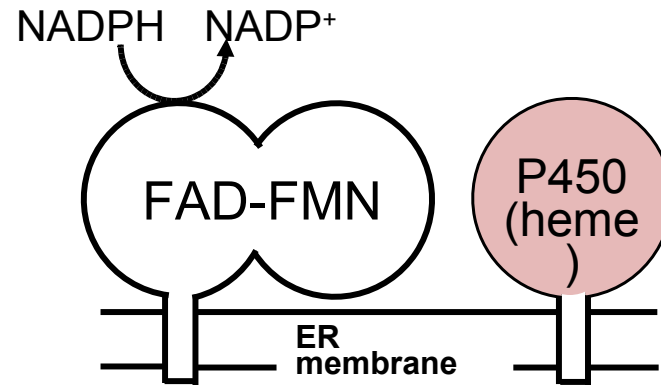


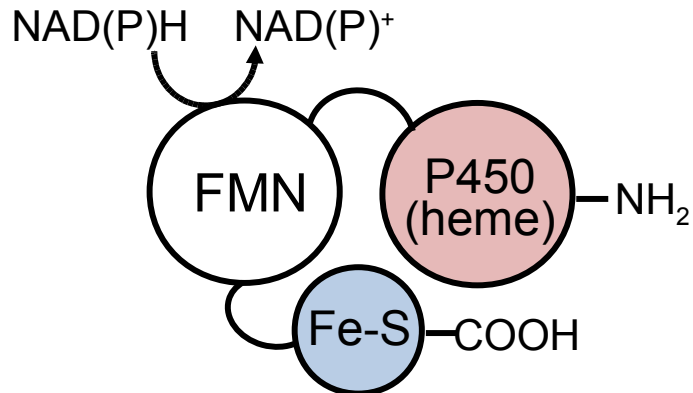
a class I (bacteria; mitochondria)



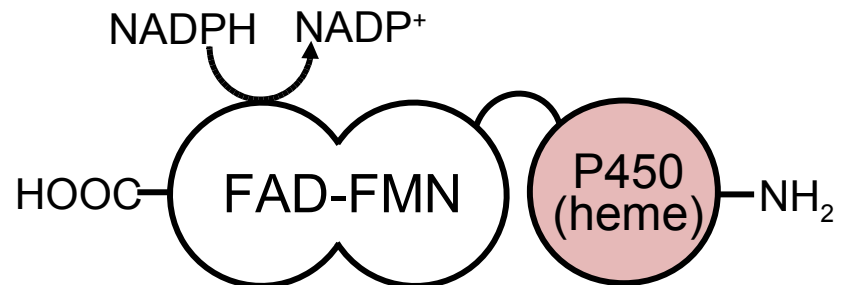
b class II (ER in eukaryotes)

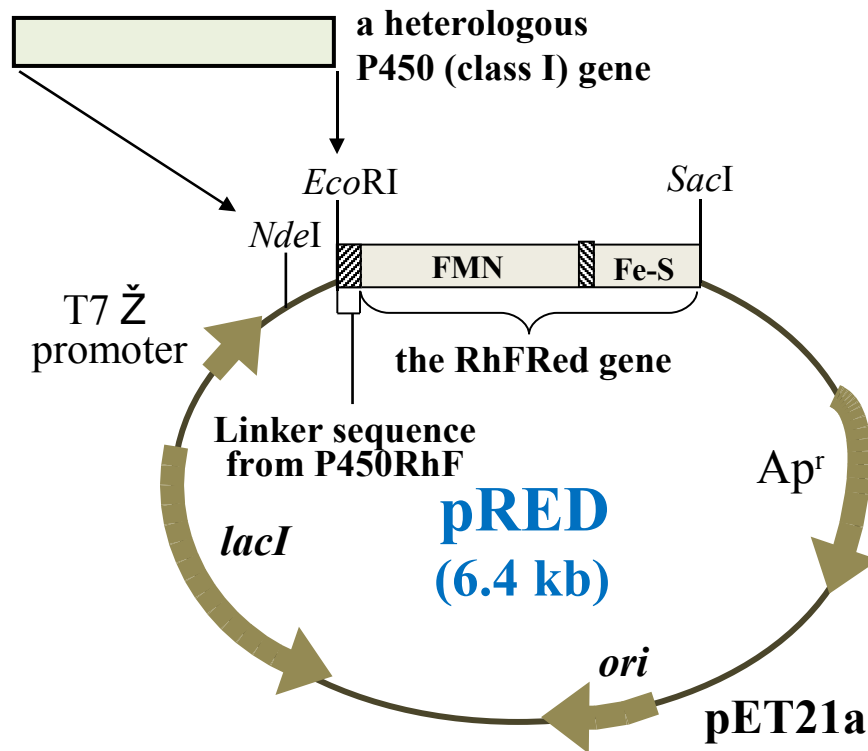


c P450RhF (*Rhodococcus* sp.)



d P450BM3 (*Bacillus megaterium*)

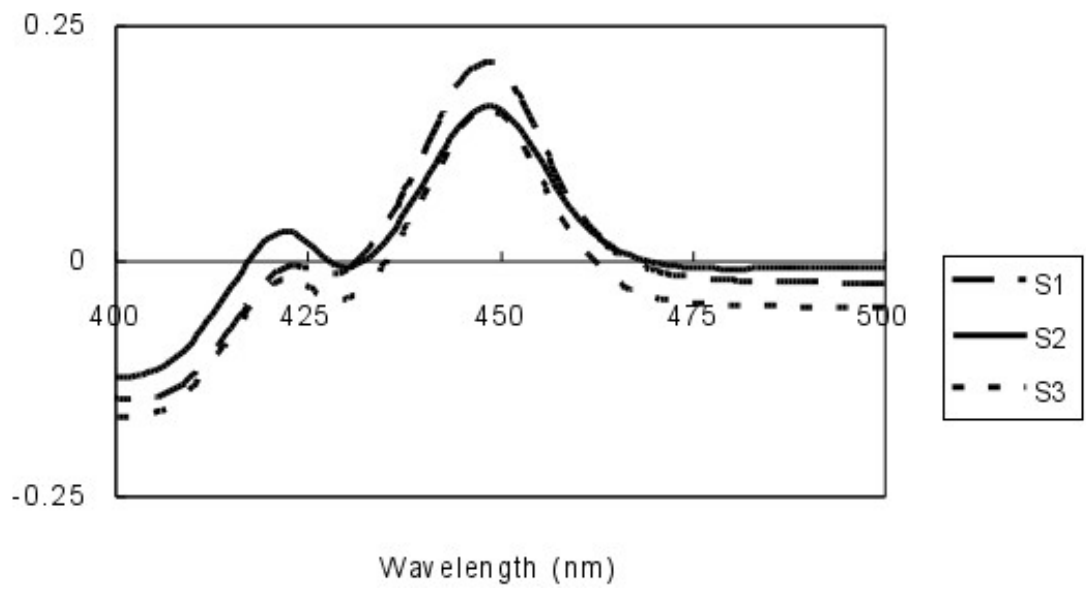




Additional file 1 (Figure 2)

substrate	m. w.	chemical structure	substrate	m. w.	chemical structure	substrate	m. w.	chemical structure
4-hydroxybenzoic acid	138.12		2,6-dimethylnaphthalene	156.22		4-methylbiphenyl	168.23	
2-bromophenol	173.01		trans-stilbene	180.25		1,6-dimethylnaphthalene	156.22	
1-phenylnaphthalene	204.27		p-(1-adamantyl)toluene	226.36		4,4'-diethylbiphenyl	210.32	
1-styrylnaphthalene	230.31		1,4-dimethylnaphthalene	156.23		1,5-dimethylnaphthalene	156.22	
2-methylnaphthalene	142.2		1-methylnaphthalene	142.20		n-pentylbenzene	148.25	
n-dodecylbenzene	246.44		bufuralol	261.37		tolbutamide	270.35	
flurbiprofen methyl ester	258.30		ibuprofen methyl ester	220.31		trans-chalcone	208.26	
flavanone	224.25		naringenin	272.26		3-hydroxyflavone	238.25	
1-naphthoic acid methyl ester	186.21		1-methoxynaphthalene	158.20		1-ethoxynaphthalene	172.23	
diclofenac sodium	318.13		warfarin sodium salt	330.31		(R)-(-)-carvone	150.22	
zerumbone	218.34		: -eudesmol	222.37		dibucaine free base	379.92	
sesamin	354.36		(+)-pinosresinol	358.39		bifonazol	310.39	
4-methoxybiphenyl	184.23		2-(p-tolyl)pyridine	169.22		2-n-butylbenzofuran	174.24	
7-ethoxycoumarin	190.2		coumarin	146.15		β-ionone	192.30	
compactine	390.52		(-)-arctigenine	372.42		nifedipine	318.29	
(S)-mephénytoin	218.26		testosterone	288.43				

Additional file 1 (Figure 3)



Additional file 1 (Figure 4)