

	Oxaloacetate				Pyruvate			
	k_{cat} (sec ⁻¹)	K_M (μ M)	K_i (mM)	k_{cat}/K_M (sec ⁻¹ M ⁻¹)	k_{cat} (sec ⁻¹)	K_M (μ M)	K_i (mM)	k_{cat}/K_M (sec ⁻¹ M ⁻¹)
AncMDH2-R102L	10 \pm 1	2000 \pm 320	12 \pm 2.3	4.9 \pm 0.5 $\times 10^3$	2.4 \pm 0.1	22000 \pm 1300	-	1.1 \pm 0.1 $\times 10^2$
AncMDH2-R102G	44 \pm 10	4300 \pm 1300	5 \pm 1.5	1.0 \pm 0.1 $\times 10^4$	6.9 \pm 0.1	16000 \pm 900	-	4.4 \pm 0.2 $\times 10^2$
AncMDH2-R102Q	12 \pm 0.2	880 \pm 40	0.88 \pm 0.04	1.3 \pm 0.1 $\times 10^4$	40 \pm 4.2	4500 \pm 700	2.9 \pm 0.4	9.2 \pm 0.4 $\times 10^3$
AncMDH2-R102W	0.18 \pm 0.008	23000 \pm 2400	-	8.1 \pm 0.6 $\times 10^0$	0.15 \pm 0.003	23000 \pm 1000	-	6.5 \pm 0.2 $\times 10^0$