

Table S1: Ratio of Heart/Liver Content for Selected Mitochondrial Proteins

Pig (n=3)		Mouse (n=4)	
Proteins (accession)	Heart/Liver (mean (SD))	Proteins (accession)	Heart /Liver (mean (SD))
Complex I: Summary	3.7 (1.0) range 2.1-6.4	Complex I: Summary	4.1(1.3) range 1.4-6.9
Complex II (ETF) summary	1.4(0.5) range 0.9-2.0	Complex II (ETF)summary	2.9(0.4) range 2.5-3.6
Complex III Summary	4.8(0.7) range 4.0-6.2	Complex III Summary	3.4 (0.5) range 2.6-4.0
Complex IV Summary	4.5 (1.4) range 3.3-7.6	Complex IV Summary	3.1(1.3) range 1.3-5.3
Complex V Summary	3.8(0.9) range 2.9-6.3	Complex V Summary	3.2(0.8) range 2.4-5.0
ADP and Pi Transport: Summary	4.7(0.8) range 4.1-5.6	ADP and Pi Transport: Summary	2.9 (2.5) range 0.5-5.6
Citric Acid Cycle Summary	4.1(1.5) range 1.8-6.1	Citric Acid Cycle Summary	4.7(0.9) range 3.9-7.0
Complex I: Summary			
	3.7 (1.0) range 2.1-6.4	Complex I: Summary	4.1(1.3) range 1.4-6.9
(Q02370) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2	3.5(0.1)	(Q9CQ75) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2	4.1(0.4)
(P17694) NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	3.6(0.3)		
(O75489) NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial	2.9(0.4)		
(O00483)NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	3.4(0.7)	(Q62425) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	5(0.7)
(O95299) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial	3.0(0.5)	(Q99LC3) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial	3.1(0.9)
(O97725) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	3.4(1.0)	(Q7TMF3) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	6.9(0.5)
(Q9P0J0) NADH dehydrogenase [ubiquinone] 1	3.1(0.8)	(Q9ERS2) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit	2.5(0.7)

alpha subcomplex subunit 13		13	
(Q02365) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3	4.4(0.9)		
(Q02367) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6	4.5(1.0)	(Q3UIU2) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6	3.1(0.3)
(Q02368) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	2.7(0.2)	(Q9CR61) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	3.9(0.3)
(Q16795) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial	4.25(0.5)	(Q9DC69) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial	3.0(0.6)
(P04394) NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial	3.7(0.1)	(Q9D6J6) NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial	3.5(0.2)
(O95182) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7	5.5(0.3)	(Q9Z1P6) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7	6.3(1.7)
(Q02373) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	2.8(0.4)	(Q9DCS9) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	3.8(0.8)
(P15690) NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	3.8(0.1)	(Q91VD9) NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	3.8(0.3)
(Q02375) NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial	6.4(0.6)	(Q9CXZ1) NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial	2.7(0.2)
(P23934) NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial	2.1(0.1)	(P52503) NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial	2.6(0.3)
(O75251) NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial	3.6(0.2)	(Q9DC70) NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial	3.0(0.8)
(P25708) NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial	3.5(0.2)	(Q91YT0) NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial	3.6(1.2)
		(Q9CQZ5) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6	5.8(1.4)
		(Q9DCJ5) NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	4.1(1.3)
		(Q9CQJ8) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9	6.2(0.3)
		(O09111) NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial	4.7(1.2)
		(Q9CQ54) NADH dehydrogenase [ubiquinone] 1 subunit C2	1.6(0.1)
		(Q91WD5) NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	4.3(0.9)

		(Q9DCT2) NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial	5.2(0.3)
		(Q8K3J1) NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial	5.6(1.6)
Complex II (ETF) summary	1.4(0.5) range 0.9-2.0	Complex II (ETF)summary	2.9(0.4) range 2.5-3.6
(P13804) Electron transfer flavoprotein subunit alpha, mitochondrial	0.92(0.1)	(Q99LCS) Electron transfer flavoprotein subunit alpha	2.7(0.5)
(Q6UQAQ8) Electron transfer flavoprotein subunit beta	0.9(0.1)	(Q9DCW4) Electron transfer flavoprotein subunit beta	2.7(0.5)
(P55931) Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	1.4(0.1)	(Q921G7) Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	3.0(0.5)
(Q007T0) Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondria	1.9(0.02)	(Q9CQA3) Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial	2.5(0.4)
(Q0QF01) Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	2.0(0.3)	(Q8K2B3) Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	3.6(0.8)
Complex III Summary	4.8(0.7) range 4.0-6.2	Complex III Summary	3.4 (0.5) range 2.6-4.0
(P62894) Cytochrome c	6.2 (0.8)		
(P31800) Cytochrome b-c1 complex subunit 1, mitochondrial	4.4(0.2)	(Q9CZ13) Cytochrome b-c1 complex subunit 1, mitochondrial	3.5(0.4)
(P23004) Cytochrome b-c1 complex subunit 2, mitochondrial	4.5(0.3)	(Q9DB77) Cytochrome b-c1 complex subunit 2, mitochondrial	3.3(0.6)
(P00125) Cytochrome c1, heme protein, mitochondrial	4.0(1.2)	(Q9D0M3) Cytochrome c1, heme protein, mitochondrial	2.6(0.3)
(P00126) Cytochrome b-c1 complex subunit 6, mitochondrial	5.3(1.0)	(P99028) Cytochrome b-c1 complex subunit 6, mitochondrial	3.75(1.0)
(P00129) Cytochrome b-c1 complex subunit 7	4.3(0.6)	(Q9D855) Cytochrome b-c1 complex subunit 7	3.0(0.5)
(P13272) Cytochrome b-c1 complex subunit Rieske, mitochondrial	4.9(0.6)	(Q9CR68) Cytochrome b-c1 complex subunit Rieske, mitochondrial	4.0(1.0)
Complex IV Summary	4.5 (1.4) range 3.3-7.6	Complex IV Summary	3.1(1.3) range 1.3-5.3

(P00426) Cytochrome c oxidase subunit 5A, mitochondrial	3.6(0.1)	(P12787) Cytochrome c oxidase subunit 5A, mitochondrial	2.4(0.5)
(A1XQT2) Cytochrome c oxidase subunit 6C	3.3 (1.2)	(Q9CPQ1) Cytochrome c oxidase subunit 6C	2.5(1.2)
(Q95283) Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	4.2(1.2)	(P19783) Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	3.8(0.7)
(Q5S3G4) Cytochrome c oxidase subunit 5B, mitochondrial	4.5(0.4)	(P19536) Cytochrome c oxidase subunit 5B, mitochondrial	5.3(1.4)
(P00430) Cytochrome c oxidase subunit 7C, mitochondrial	4.1(1.4)	(P17665) Cytochrome c oxidase subunit 7C, mitochondrial	3.1(0.4)
(P00429) Cytochrome c oxidase subunit 6B1	4.7(0.6)		
(Q8SPJ9) Cytochrome c oxidase subunit 7A1, mitochondrial	7.6(2)		
		(P00405) Cytochrome c oxidase subunit 2	3.1(0.8)
		(P48771) Cytochrome c oxidase subunit 7A2, mitochondrial	1.3(0.3)
Complex V Summary	3.8(0.9) range 2.9-6.3	Complex V Summary	3.2(0.8) range 2.4-5.0
(P19483) ATP synthase subunit alpha, mitochondrial	3.2(0.1)	(Q03265) ATP synthase subunit alpha, mitochondrial	3.7(0.4)
(P06576) ATP synthase subunit beta, mitochondrial	3.2(0.1)	(P56480) ATP synthase subunit beta, mitochondrial	4.0(0.6)
(P13618) ATP synthase-coupling factor 6, mitochondrial	4.3(0.6)	(P97450) ATP synthase-coupling factor 6, mitochondrial	5.0(0.6)
(P05631) ATP synthase subunit gamma, mitochondrial	4.0(0.3)	(Q91VR2) ATP synthase subunit gamma, mitochondrial	2.4(0.6)
(P13619) ATP synthase subunit b, mitochondrial	3.6(0.5)	(Q9CQQ7) ATP synthase subunit b, mitochondrial	2.7(0.5)
(Q29307) ATPase inhibitor, mitochondrial	6.3(0.5)		
(P56381) ATP synthase subunit epsilon, mitochondrial	3.3(0.1)		
(P13620) ATP synthase subunit d, mitochondrial	4.1(1.3)		
(P56385) ATP synthase subunit e,	2.9(0.3)	(Q06185) ATP synthase subunit e,	2.8(0.3)

mitochondrial		mitochondrial	
(Q28852) ATP synthase subunit g, mitochondrial	4.0(0.4)	(Q9CPQ8) ATP synthase subunit g, mitochondrial	2.5(0.4)
(Q2EN81) ATP synthase subunit O, mitochondrial	3.6(0.2)	(Q9DB20) ATP synthase subunit O, mitochondrial	2.8(0.7)
		(Q9D3D9) ATP synthase subunit delta, mitochondrial	3.6(0.6)
		(P56135) ATP synthase subunit f, mitochondrial	2.5(0.6)
ADP and Pi Transport: Summary	4.7(0.8) range 4.1-5.6	ADP and Pi Transport: Summary	2.9 (2.5) range 0.5-5.6
(P02722) ADP/ATP translocase 1	4.3(1.5)	(P48962) ADP/ATP translocase 1	5.6(0.4)
(Q8SQH5) ADP/ATP translocase 2	4.1(1.3)	(P51881) ADP/ATP translocase 2	0.5(0.1)
(P12234) Phosphate carrier protein, mitochondrial	5.6(2)	(Q8VEM8) Phosphate carrier protein, mitochondrial	2.6(0.3)
Citric Acid Cycle Summary	4.1(1.5) range 1.8-6.1	Citric Acid Cycle Summary	4.7(0.9) range 3.9-7.0
(P00346) Malate dehydrogenase, mitochondrial	2.8(0.2)	(P08249) Malate dehydrogenase, mitochondrial	4.3(0.7)
(P33198) Isocitrate dehydrogenase [NADP], mitochondrial	4.3(0.3)	(P54071) Isocitrate dehydrogenase [NADP], mitochondrial	7.0(1.0)
(Q148N0) 2-oxoglutarate dehydrogenase E1 component, mitochondrial	2.1(0.3)	(Q60597) 2-oxoglutarate dehydrogenase, mitochondrial	4.1(0.4)
(P16276) Aconitate hydratase, mitochondrial	3.8(0.2)	(Q99K10) Aconitate hydratase, mitochondrial	4.7(0.4)
(O97580) Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial	3.9(0.1)	(Q9Z2I9) Succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial	4.4(0.8)
(Q29551) Succinyl-CoA:3-ketoacid-coenzyme A transferase 1, mitochondrial	6.1(0.2)	(Q9D0K2) Succinyl-CoA:3-ketoacid-coenzyme A transferase 1, mitochondrial	4.4(0.8)
(P41563) Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	5.8(0.1)	(P70404) Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial	4.9(0.9)
(P08559) Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	5.6(0.4)	(P35486) Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial	5.1(0.6)
(P00889) Citrate synthase, mitochondrial	4.8(0.5)	(Q9CZU6) Citrate synthase, mitochondrial	4.1(0.8)
(P07954) Fumarate hydratase, mitochondrial	1.8(0.1)	(P97807) Fumarate hydratase, mitochondrial	3.9 (1.0)

