

Table S3

Protein	Peptide sequence	Modification
Outer Mitochondrial Membrane		
Voltage-dependent anion-selective channel protein 2	VNSSLIGVGYTQTLRPGVK	Deamidated(N)@3
Voltage-dependent anion-selective channel protein 2	LTFDTTFSPNTGK	Deamidated(N)@10
Mitochondrial fission 1 protein	MEAVLNELVSVEDLK	Protein Terminal Acetyl@N-term
Inner Mitochondrial Membrane		
ATP synthase subunit alpha	ELLGRVVDALGNAIDGK	Oxidation(R)@5 ; Deamidated(N)@12
ATP synthase, H ⁺ transporting, F1 complex, alpha subunit	VVDALGNAIDGKGPVGSK	Deamidated(N)@7; Oxidation(P)@14
ATP synthase subunit beta	IMDPNIVGNEHYDVAR	Deamidated(N)@9
ATP synthase subunit alpha	VVDALGNAIDGK	Deamidated(N)@7
ATP synthase subunit gamma	QMKNEVAALTAAGK	Gln->pyro-Glu@N-term; Deamidated(N)@4
Cytochrome b-c1 complex subunit 2	RGNNTTSLLSQSVAK	Deamidated(N)@3
Cytochrome b-c1 complex subunit 1	TATFAQALQSVPETQVSILDNGLR	Deamidated(N)@21
Cytochrome b-c1 complex subunit 1	EMQENDASMQNVVFDYLHATAFQGT PLAQAVEGPESENVR	Deamidated(Q)@29
Cytochrome b-c1 complex subunit Rieske	MLSVAAR	Protein Terminal Acetyl@N-term
Cytochrome c1, heme protein	ALAEVEVQDGPNDGEMFMRPGK	Deamidated(N)@13

Cytochrome c oxidase subunit 5A	AWELRKGMNTLVGYDLVPEPK	Deamidated(N)@9
Cytochrome c oxidase subunit 5A	LNDFASAVR	Deamidated(N)@2; Dehydrated(D)@3
Cytochrome c oxidase subunit 5A	RLNDFASAVR	Deamidated(N)@3
Cytochrome c oxidase subunit 5A	YEDSNLGTSHLLR	Deamidated(N)@6
Cytochrome c oxidase subunit 6A2	GDHGGAGANTWR	Deamidated(N)@9
NADH-ubiquinone oxidoreductase 75 kDa subunit	GWNILTNSEK	Deamidated(N)@3
NADH-ubiquinone oxidoreductase 75 kDa subunit	SATYVNTEGR	Deamidated(N)@6
NADH-ubiquinone oxidoreductase 75 kDa subunit	LTEPMVRNEK	Deamidated(N)@8
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7	NWASGQDLQAK	Deamidated(N)@1
NADH dehydrogenase [ubiquinone] flavoprotein 2	QNGWLPISAMNK	Deamidated(N)@2
NADH dehydrogenase [ubiquinone] iron-sulfur protein 2	IDEVEEMLTNNR	Deamidated(N)@10
NADH dehydrogenase [ubiquinone] iron-sulfur protein 2	LYTEGYQVPPGATYTAIEAPK	Deamidated(Q)@7
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9,	FIHVSHLNASK	Deamidated(N)@8
NADH dehydrogenase [ubiquinone] iron-sulfur protein 4	PKPKSKSYGANFSWNKR	Deamidated(N)@15
NADH dehydrogenase [ubiquinone] iron-sulfur protein 4	NGWSYDVEEK	Deamidated(N)@1

Creatine kinase S-type, mitochondrial	ENLRLQKRGTGGVDTAAVADVYDIS NIDR	Deamidated(R)@8; Oxidation(D) @14
Chaperone activity of bc1 complex-like	AAMLGDAIMVAK	Protein Terminal Acetyl@N-term
Matrix-Associated Proteins		
Aconitase Hydratase	KGEKNTIVTSYNR	Deamidated(N)@5
Aconitase Hydratase	LEAPDADELPR	Deamidated(N)@1
Aconitase Hydratase	LNRPLTLSEK	Deamidated(N)@1
2-oxoglutarate dehydrogenase E1 component	HHVLHDQNVDKR	Deamidated(N)@8
2-oxoglutarate dehydrogenase E1 component	NGHNEMDEPMFTQPLMYK	Deamidated(N)@4; Deamidated(Q)@13
2-oxoglutarate dehydrogenase E1 component	SWDIFFRNTNAGAPPGTAYQSPLSLS R	Trioxidation(W) @2; Deamidated(N)@8
2-oxoglutarate dehydrogenase E1 component	VIPENGPAAQDPHK	Deamidated(N)@5
2-oxoglutarate dehydrogenase E1 component	VIPENGPAAQDPHKVK	Deamidated(N)@5
2-oxoglutarate dehydrogenase E1 component	NMEEEVAITR	Deamidated(N)@1
Malate dehydrogenase	TEVVKAKAGAGSATLSMAYAGAR	Dioxidation(K) @5
Malate dehydrogenase	NLGIGK	Deamidated(N)@1
60 kDa heat shock protein	DKYKNIGAKLVQDVANNTNEEAGDG TTTATVLAR	Didehydroretinylidene(K)@9; Deamidated(N)@19

60 kDa heat shock protein	TNEEAGDGTTTATVLAR	Deamidated(N)@2
Trifunctional enzyme subunit alpha	INSPNSKVNTLNK	Deamidated(N)@5
Trifunctional enzyme subunit alpha	MGLVDQLVEPLGPGIKSPEER	Deamidated(Q)@6
Trifunctional enzyme subunit alpha	GQQQVFKGLNDKVK	Deamidated(Q)@4
78 kDa glucose-regulated protein	LGGKLSSDKETMEK	Acetyl@N-term
78 kDa glucose-regulated protein	NQLTSNPENTVFDK	Deamidated(N)@1
Acetyl-CoA acetyltransferase	KMNISRQEQDTYALSSYTR	Deamidated(Q)@7
Acetyl-CoA acetyltransferase	AGIPKEEVKEVYMGNVIQGGEGQAP TR	Deamidated(N)@15
Electron transfer flavoprotein subunit beta	VKPDKSGVVTGDKHSMNPF	Deamidated(N)@18
Very long-chain specific acyl-CoA dehydrogenase	EATQAVLDKPETLSSDASTR	Deamidated(Q)@4
Very long-chain specific acyl-CoA dehydrogenase	LCDSWCIEAATR	Carbamidomethyl(C)@2; Oxidation(W) @5; Carbamidomethyl(C)@6
Long-chain specific acyl-CoA dehydrogenase	KFFQEEVIPHTEWEK	Deamidated(Q)@4
Long-chain specific acyl-CoA dehydrogenase	FIPQMTAGKCGIAIAMTEPGAGSDLQ GVR	Oxidation(P) @3; Deamidated(Q)@4; Carbamidomethyl(C)@10
Medium-chain specific acyl-CoA dehydrogenase	MWITNGGK	Deamidated(N)@5
Grp75	QAVTNPNTFYATKR	Deamidated(N)@8

3-ketoacyl-CoA thiolase	DGTVTAGNASGVSDGAGAVIIASEDA VKK	Deamidated(N)@8
Enoyl-CoA hydratase	GKNSSVGLIQLNRPK	Deamidated(N)@3
Electron transfer flavoprotein subunit alpha	GQLRRAASLLRFQSTLVIAEHANDSL APITLNTITAAGR	Deamidated(N)@23
3,2-trans-enoyl-CoA isomerase	EADIQNFTSFISK	Deamidated(N)@6
Methylmalonate-semialdehyde dehydrogenase [acylating]	IVNDNPYGNGTAIFFTNGATAR	Deamidated(N)@9; Deamidated(N)@17
Peroxiredoxin-5	FSMVIDNGIVK	Dethiomethyl(M)@3; Deamidated(N)@7
Fatty acid-binding protein, heart	ADAFVGTWK	Protein Terminal Acetyl@N-term
Coiled-coil-helix-coiled-coil-helix domain- containing protein 3	RVTFEADENENITVVK	Deamidated(N)@9
Delta-1-pyrroline-5-carboxylate dehydrogenase	VANEPILAFSQGSPER	Deamidated(N)@3
28S ribosomal protein S22	LMTQAQLEEATR	Deamidated(Q)@4