

PROTEOMICS

Supporting Information for Proteomics

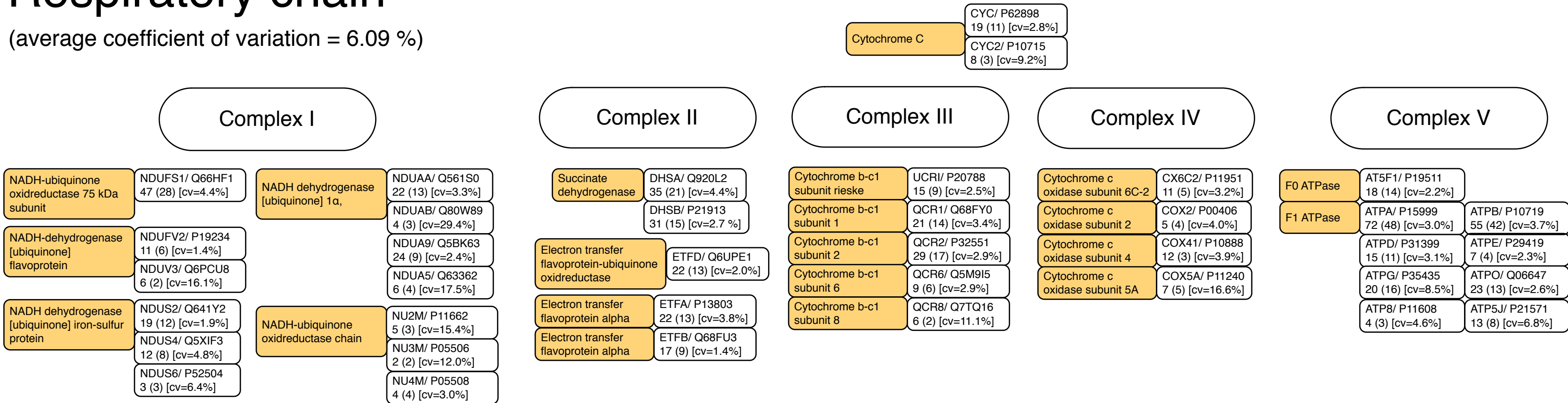
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Label-free profiling of skeletal muscle using high-definition mass spectrometry

Respiratory chain

(average coefficient of variation = 6.09 %)



Protein kinases

(average coefficient of variation = 8.35 %)

cAMP-dependent protein kinase

PKA

cAMP-dependent protein kinase catalytic subunit β	KAPCB/ P68182 28 (7) [cv=13.9%]
cAMP-dependent protein kinase type 1α regulatory subunit	KAP0/ P09456 9 (4) [cv=4.6%]
cAMP-dependent protein kinase type 1β regulatory subunit	KAP1/ P81377 5 (4) [cv=17.5%]
cAMP-dependent protein kinase type 2α regulatory subunit	KAP2/ P12368 15 (8) [cv=5.3%]
cAMP-dependent protein kinase type 2β regulatory subunit	KAP3/ P12369 9 (5) [cv=6.0%]

5'-AMP protein kinase

5'AMP protein kinase α2	AAPK2/ Q09137 5 (4) [cv=3.3%]
5'AMP protein kinase γ1	AAKG1/ P803*5 5 (2) [cv=13.9%]

Tyrosine protein kinase

Tyrosine protein kinase JAK3	JAK3/ Q63272 13 (5) [cv=3.9%]
Muscle skeletal receptor tyrosine kinase	MUSK/ Q62838 6 (3) [cv=5.3%]

Calcium/calmodulin-dependent protein kinase

Calcium/calmodulin-dependent protein kinase type II β	KCC2B/ P08413 10 (4) [cv=3.9%]
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Serine/threonine protein kinase

sucrose-non-fermenting protein kinase/AMP-activated protein kinase-related protein kinase, SNARK	NUAK2/ Q66HE5 16 (5) [cv=3.0%]
Striated muscle-specific protein kinase	SPEG/ Q63638 18 (4) [cv=6.0%]
STE20-like protein kinase	SLK/ O08815 21 (6) [cv=2.5%]
Serine/threonine protein kinase MRCK α	MRCKA/ O5487 29 (12) [cv=7.8%]
Serine/threonine protein kinase MRCK β	MRCKB/ Q7TT49 22 (10) [cv=5.8%]
Serine/threonine protein kinase PRP4	PRP4B/ Q5RKH1 12 (6) [cv=9.7%]
RAC-α serine/threonine protein kinase	AKT1/ P47196 20 (9) [cv=37.3%]
RAC-β serine/threonine protein kinase	AKT2/ P47197 20 (9) [cv=4.3%]

PKBa/ AKT1
PKBβ/ AKT2

Mitogen-activated protein kinase kinase

Dual specificity mitogen-activated protein kinase kinase 1	MP2K1/ Q01986 15 (9) [cv=5.5%]
Regulator complex protein LAMTOR3	LTOR3/ Q5U204 6 (3) [cv=5.9%]

Mitogen-activated protein kinase

Mitogen-activated protein kinase 9	MK9/ P49186 5 (2) [cv=5.8%]
Mitogen-activated protein kinase 10	MK10/ P49187 10 (4) [cv=9.2%]
Mitogen-activated protein kinase 12	MK12/ Q63538 16 (8) [cv=2.6%]
Mitogen-activated protein kinase 13	MK13/ Q9WTY9 9 (2) [cv=11.4%]
Mitogen-activated protein kinase 14	MK14/ P70618 3 (2) [cv=9.2%]

p38γ
p38δ
p38α