

Supporting information

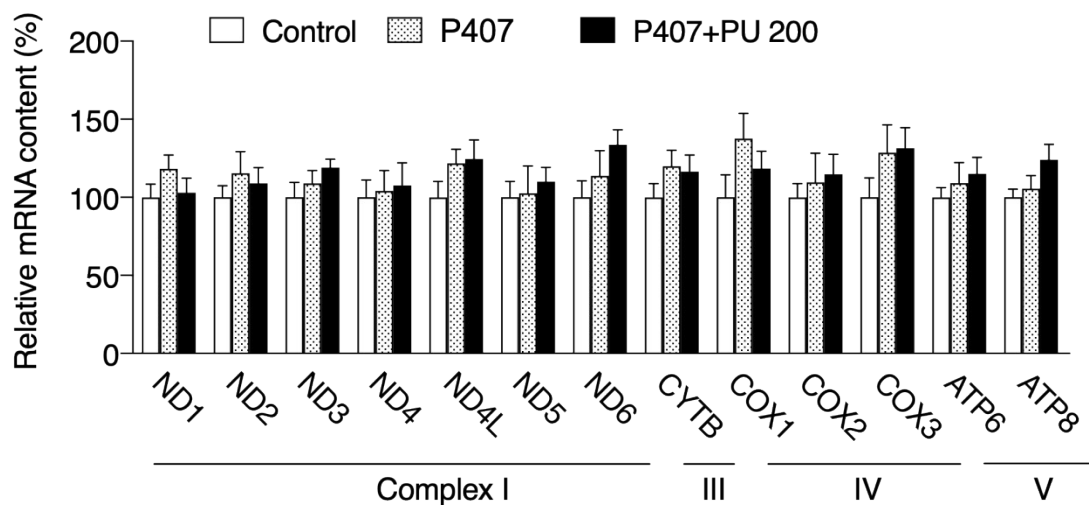


Figure S1 Effects of PU on mRNA levels of mitochondrial DNA-encoded mitochondrial complex subunits. Con, control; P407, poloxamer 407; P407 + PU 200, poloxamer 407 plus PU at 200 mg/kg/day. (A) Liver relative mRNA levels of mtDNA-encoded mitochondrial complex subunits. The values are the means \pm S.E.M. (n =6).

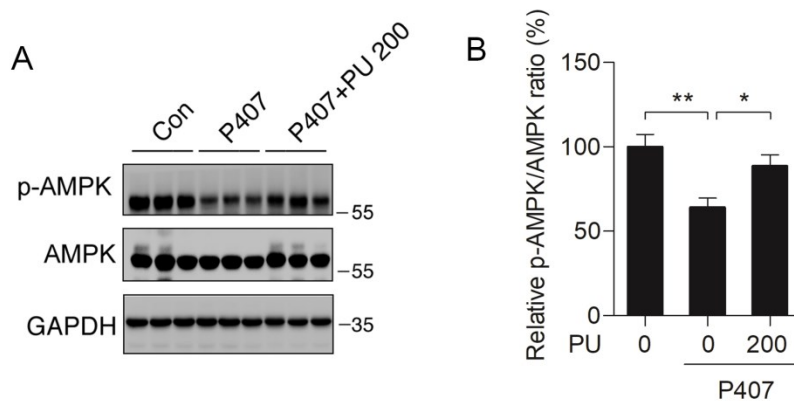


Figure S2 p-AMPK and AMPK protein levels in hyperlipidemic mouse liver. Con, control; P407, poloxamer 407; P407 + PU 200, poloxamer 407 plus PU at 200 mg/kg/day. (A) Liver relative mRNA levels of mtDNA-encoded mitochondrial complex subunits. The values are the means \pm S.E.M. (n =6).

Table S1 Primers

Species	Gene	Primer (5'-3')
Mouse	<i>18S rRNA</i>	Forward: GTAACCCGTTGAACCCCAT
		Reverse: CCATCCAATCGGTAGTAGCG
Mouse	<i>Nrf2</i>	Forward: GCAGGCTATCTCCTAGTTCT
		Reverse: CAATCAAATCCATGTCCTGC
Mouse	<i>NQO1</i>	Forward: AGGATGGGAGGTAAGTCAATC
		Reverse: AGGCGTCCTCCTTATATGCTA
Mouse	<i>HO1</i>	Forward: AAGCCGAGAATGCTGAGTTCA
		Reverse: GCCGTGTAGATATGGTACAAGGA
Mouse	<i>Catalase</i>	Forward: AGCGACCAGATGAAGCAGTG
		Reverse: TCCGCTCTCTGTCAAAGTGTG
Mouse	<i>SOD1</i>	Forward: AACCAGTTGTGTTGTCAGGAC
		Reverse: CCACCATGTTTCTTAGAGTGAGG
Mouse	<i>SOD2</i>	Forward: CAGACCTGCCTTACGACTATGG
		Reverse: CTCGGTGGCGTTGAGATTGTT
Mouse	<i>GCLM</i>	Forward: AGGAGCTTCGGGACTGTATCC
		Reverse: GGGACATGGTGCATTCCAAAA
Mouse	<i>NDUFA1</i>	Forward: ATGTGGTTCGAGATTCTCCC
		Reverse: GCAACTCGTTTTTCCTTGC
Mouse	<i>NDUFS1</i>	Forward: ATCCCATAGGTCAGACAAGC
		Reverse: CAGTTGTGCGAACATATCCT
Mouse	<i>SDHA</i>	Forward: AAGATTACAAAGTGCGGGTC
		Reverse: TTTCATCAGTAGGAGCGGAT
Mouse	<i>SDHB</i>	Forward: GTTCTCGGCAGAGTCGG
		Reverse: TCCGCACTTATTCAGATCCA
Mouse	<i>UQCRB</i>	Forward: CACTCTCAGGTCAAATGGC
		Reverse: ATCTCGCATTAAACCCAGT
Mouse	<i>UQCRQ</i>	Forward: GCGTCTATCTTCTGTCCCA

		Reverse: ACCACTACAAACGGCGG
Mouse	<i>COX6C</i>	Forward: CATTGGCTACCATGAGTTCC Reverse: CAGCCACGCCAAACTTATAG
Mouse	<i>COX7C</i>	Forward: GAGCAAGGTCGTGTAGAAAG Reverse: GAAAATGGCAAATTCTTCCCC
Mouse	<i>ATP5A1</i>	Forward: CATTTTGTGCCAGTCGTCC Reverse: ATTTTGGAGACCAGTCCCG
Mouse	<i>ATP5B1</i>	Forward: AATTCCTGTTGGTCCTGAGA Reverse: CCAAAGAGTCCGATTTTCCC
Mouse	<i>TFAM</i>	Forward: AGACTACACTGGGAAACCAC Reverse: GTTAGGCTTATAGGGACCCA
Mouse	<i>TFB1M</i>	Forward: CCCAAACCAAAGTTGATGT Reverse: TTCCTTCGAAACTGAAACG
Mouse	<i>TFB2M</i>	Forward: GGCATTACTIONAAAGCTGGTG Reverse: TTTATAGGAACACCTGCTGAC
Mouse	<i>POLRMT</i>	Forward: TTCCCTCAGGAGTTTGTCTG Reverse: TGATAGGGCTGTATGATGGG
Human	<i>18S rRNA</i>	Forward: GTAACCCGTTGAACCCATT Reverse: CCATCCAATCGGTAGTAGCG
Human	<i>Nrf2</i>	Forward: AGACAGGTGAATTTCTCCCA Reverse: CGTAGCCGAAGAAACCTCAT
Human	<i>NQO1</i>	Forward: TTTGGAGTCCCTGCCATTCT Reverse: CCTTCTTACTCCGGAAGGGTC
Human	<i>HO1</i>	Forward: AGCAACAAAGTGCAAGATTC Reverse: CCTGCATTCACATGGCATAA
Human	<i>Catalase</i>	Forward: GAAGAAAGCGGTCAAGAACT Reverse: GTGAATCGCATTCTTAGGCT
Human	<i>SOD1</i>	Forward: GCATCATCAATTCGAGCAG Reverse: AAGTCTCCAACATGCCTCT

Human	<i>SOD2</i>	Forward: GTTGGCCAAGGGAGATGTTA Reverse: AAGTCACGTTTGATGGCTTC
Human	<i>NDUFA1</i>	Forward: ACCCAGAAGTAGGGTTTTGG Reverse: TTCTCAAACCCCTTGACAC
Human	<i>NDUFS1</i>	Forward: CAAGGATTCTAGTCCCTCCG Reverse: CTTAACATATTGCTTCTCCCG
Human	<i>SDHA</i>	Forward: AACATGGAGGAGGACAACCTG Reverse: CATATCGCAGAGACCTCCA
Human	<i>SDHB</i>	Forward: TTGTTCCCGATTTGAGCAAC Reverse: TCACGCTTCTATGGACTG
Human	<i>UQCRB</i>	Forward: TGGTCAAATGGCTGGTAAG Reverse: CTCGCATTAACCCAGTTTA
Human	<i>UQCRQ</i>	Forward: TCAGCTACAGCTTGTACC Reverse: AAACACTACAACTGCGGC
Human	<i>COX6C</i>	Forward: GCTTTGTATAAGTTTCGTGTGG Reverse: AACTGAGAAAGACTTACTGTCC
Human	<i>COX7C</i>	Forward: GATCTGCATTTGCTACACCC Reverse: GGCTGCACCTCTTAAAATGC
Human	<i>ATP5A1</i>	Forward: TTCCGCGGTATAATCAACAC Reverse: GCAGTCCCAGTCTTTGAAG
Human	<i>ATP5B1</i>	Forward: CCTGTTGGTCCTGAGACTTT Reverse: CCAAAAAGCCCAATTTGCC
Mouse	<i>D-loop</i> (for DNA)	Forward: AGGCATGAAAGGACAGCA Reverse: TTGGCATTAAAGAGGAGGG
Mouse	<i>18S rRNA</i> (for DNA)	Forward: GAGAAACGGCTACCACATCC Reverse: CACCAGACTTGCCCTCCA

Table S2 siRNAs

Species	Gene	Primer (5'-3')
Human	<i>PGC-1α</i>	Forward: CCAGCCAACACUCAGCUAATT
	<i>siRNA1</i>	Reverse: UUAGCUGAGUGUUGGCUGGTT
Human	<i>PGC-1α</i>	Forward: CCACCACUCCUCCUCAUAATT
	<i>siRNA2</i>	Reverse: UUAUGAGGAGGAGUGGUGGTT
Human	<i>PGC-1α</i>	Forward: GCUAUGGUUUCAUUACCUATT
	<i>siRNA3</i>	Reverse: UAGGUAAUGAAACCAUAGCTT
Human	<i>Nrf2</i>	Forward: GGUUGAGACUACCAUGGUUTT
	<i>siRNA1</i>	Reverse: AACCAUGGUAGUCUCAACCTT
Human	<i>Nrf2</i>	Forward: GACAGAAGUUGACAAUUAUTT
	<i>siRNA2</i>	Reverse: AUAAUUGUCAACUUCUGUCTT
Human	<i>Nrf2</i>	Forward: CCAGAACACUCAGUGGAAUTT
	<i>siRNA3</i>	Reverse: AUUCCACUGAGUGUUCUGGTT