

Supplementary Table S1. Gene ontology analysis of proteins only detected after incubation with EO.

	GO #	p value	Genes related
Molecular functions			
Catalytic activity	0003824	0.001	MCM5, UCHL5, ALDOC, CTBP1, NAA15, PGP, PLOD1, DYNC1I2, TRM T6, ADSL, MASTL, PUS7, ADSS, STK26, CKAP5, GLUL, GSS, PPP1CB, TP P2
Magnesium ion binding	0000287	0.002	PGP, ADSS, STK26, GLUL, GSS
Ligase activity, forming carbon-nitrogen bonds	0016879	0.011	ADSS, GLUL, GSS
Dynein light chain binding	0045503	0.021	DYNC1I2, GLUL
Biological processes			
“de novo” AMP biosynthetic process	0044208	0.004	ADSL, ADSS
AMP biosynthetic process	0006167	0.021	ADSL, ADSS
G2/M transition of mitotic cell cycle	0000086	0.034	DYNC1I2, MASTL, RCC2, CKAP5, PPP1CB
Cell cycle G2/M phase transition	0044839	0.042	DYNC1I2, MASTL, RCC2, CKAP5, PPP1CB
Cellular components			
Cytosol	0005829	0.001	MCM5, UCHL5, ALDOC, VASP, CD2BP2, ARID3A, EIF3M, NAA15, DY NC1I2, ADSL, ADSS, RCC2, STK26, CKAP5, GLUL, GSS, PPP1CB, TPP2, T BCA
Nuclear chromosome	0000228	0.033	MCM5, UCHL5
KEGG pathways			
Alanine, aspartate and glutamate metabolism	00250	0.007	ADSL, ADSS, GLUL
REAC pathways			

Purine ribonucleoside monophosphate biosynthesis	R-HSA-73817	0.045	ADSL,ADSS
Wiki pathways			
Purine metabolism	WP4792	0.037	ADSL,ADSS
Transcription factors motifs			
E2F-3:FOXI1	M08208	0.0149	MCM5,UCHL5,ALDOC,VASP,CTBP1,CD2BP2,ARID3A,EIF3M,NAA 15,PGP,PLOD1,DYNC1I2,TRMT6,ADSL,MASTL,PUS7,ADSS,RCC2,S TK26,CKAP5,SREK1,GLUL,GSS,PPP1CB,TPP2,TBCA
EHF	M02052_1	0.022	MCM5,UCHL5,VASP,CTBP1,CD2BP2,EIF3M,PGP,DYNC1I2,TRMT6, ADSL,MASTL,ADSS
miRNA motifs			
hsa-miR-6883-3p	hsa-miR-6883-3p	0.019	UCHL5,ALDOC
has-miR-454-5p	hsa-miR-454-5p	0.020	UCHL5,ALDOC

Supplementary Table S2. Gene ontology analysis of proteins not detected or detected at decreased levels after incubation with EO.

	GO #	<i>p</i> value	Genes related
Molecular functions			
Heterocyclic compound binding	1901363	0.002	RHOG, GRPEL1, IARS2, DNAJA3, MSH2, TRA2A, TAF15, ERH, MRPS23, SA RS2, RANBP2, WDR33, MRT04, CYB5A, IVD, NRAS, PES1, CTPS2, OGDH, S UB1, RAB21, RBM17, RHOT2, SDHA, CARHSP1
Organic cyclic compound binding	0097159	0.0023	RHOG, GRPEL1, IARS2, DNAJA3, MSH2, TRA2A, TAF15, ERH, MRPS23, SA RS2, RANBP2, WDR33, MRT04, CYB5A, IVD, NRAS, PES1, CTPS2, OGDH, S UB1, RAB21, RBM17, RHOT2, SDHA, CARHSP1
RNA binding	0003723	0.0034	IARS2, TRA2A, TAF15, ERH, MRPS23, SARS2, RANBP2, WDR33, MRT04
Peptidyl-aspartic acid 3-dioxygenase activity	0062101	0.0219	ASPH
Nucleotide binding	0000166	0.0249	RHOG, GRPEL1, IARS2, DNAJA3, MSH2, ERH, SARS2, IVD, NRAS, CTPS2, R AB21, RHOT2, SDHA
Nucleoside phosphate binding	1901265	0.0251	RHOG, GRPEL1, IARS2, DNAJA3, MSH2, ERH, SARS2, IVD, NRAS, CTPS2, R AB21, RHOT2, SDHA
Small molecule binding	0036094	0.0251	RHOG, GRPEL1, IARS2, DNAJA3, MSH2, ERH, SARS2, IVD, NRAS, CTPS2, O GDH, RAB21, RHOT2, SDHA
Biological processes			
Generation of precursor metabolites and energy	0006091	0.012	ASPH, NUP43, MSH2, RANBP2, CYB5A, DLAT, OGDH, SDHA
Carboxylic acid metabolic process	0019752	0.023	IARS2, NUP43, SARS2, RANBP2, CYB5A, DLAT, IVD, CTPS2, OGDH
Oxoacid metabolic process	0043436	0.029	IARS2, NUP43, SARS2, RANBP2, CYB5A, DLAT, IVD, CTPS2, OGDH
Organic acid metabolic process	0006082	0.037	IARS2, NUP43, SARS2, RANBP2, CYB5A, DLAT, IVD, CTPS2, OGDH
Cellular components			
Mitochondrion	0005739	0.0007	GRPEL1, IARS2, DNAJA3, MRPS23, SARS2, RANBP2, CYB5A, DLAT, IVD, O GDH, BCAP31, RHOT2, SDHA
Membrane-enclosed lumen	0031974	0.0007	ASPH, GRPEL1, IARS2, DNAJA3, NUP43, MSH2, TRA2A, TAF15, ANAPC7, S ARS2, RANBP2, WDR33, MRT04, GNS, RCL1

Intracellular organelle lumen	0070013	0.0008	ASPH, GRPEL1, IARS2, DNAJA3, NUP43, MSH2, TRA2A, TAF15, ANAPC7, SARS2, RANBP2, WDR33, MRTO4, GNS, RCL1
Organelle lumen	0043233	0.0008	ASPH, GRPEL1, IARS2, DNAJA3, NUP43, MSH2, TRA2A, TAF15, ANAPC7, SARS2, RANBP2, WDR33, MRTO4, GNS, RCL1
Mitochondrial matrix	0005759	0.0009	GRPEL1, IARS2, DNAJA3, SARS2, DLAT, IVD, OGDH
Intracellular membrane-bound organelle	0043231	0.009	ASPH, RHOG, GRPEL1, IARS2, DNAJA3, NUP43, MSH2, TRA2A, TAF15, ERH, MRPS23, ANAPC7, SARS2, RANBP2, WDR33, MRTO4, GNS, RCL1, SGTA, CYB5A, DLAT, IVD, NRAS, PES1, OGDH, SUB1, TMED10, RAB21, RBM17, BCAP31, RHOT2, SDHA
KEGG pathways			
Citrate cycle (TCA cycle)	00020	0.0167	DLAT, OGDH, SDHA
REAC pathways			
Transport of mature mRNA derived from an intronless transcript	R-HSA-159231	0.006	NUP43, RANBP2, WDR33
Transport of mature mRNA derived from intronless transcripts	R-HSA-159234	0.0067	NUP43, RANBP2, WDR33
Wiki pathways			
TCA cycle and deficiency of pyruvate dehydrogenase	WP2453	0.0042	DLAT, OGDH, SDHA
Transcription factors motifs			
E2F-4	M07084	0.002	ASPH, RHOG, GRPEL1, IARS2, DNAJA3, NUP43, MSH2, TRA2A, TAF15, ERH, MRPS23, ANAPC7, SARS2, RANBP2, WDR33, MRTO4, GNS, RCL1, SGTA, CYB5A, DLAT, IVD, NPTN
miRNA motifs			
hsa-miR-6081	hsa-miR-6081	0.032	ASPH, RHOG