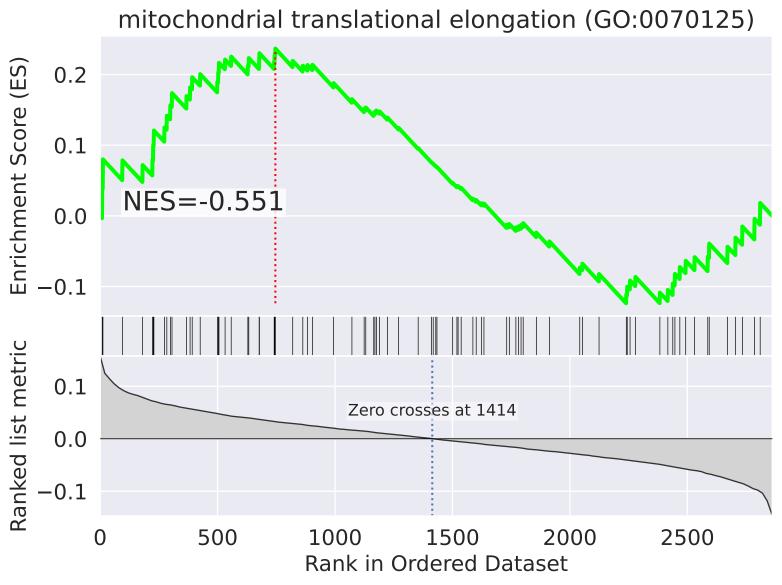
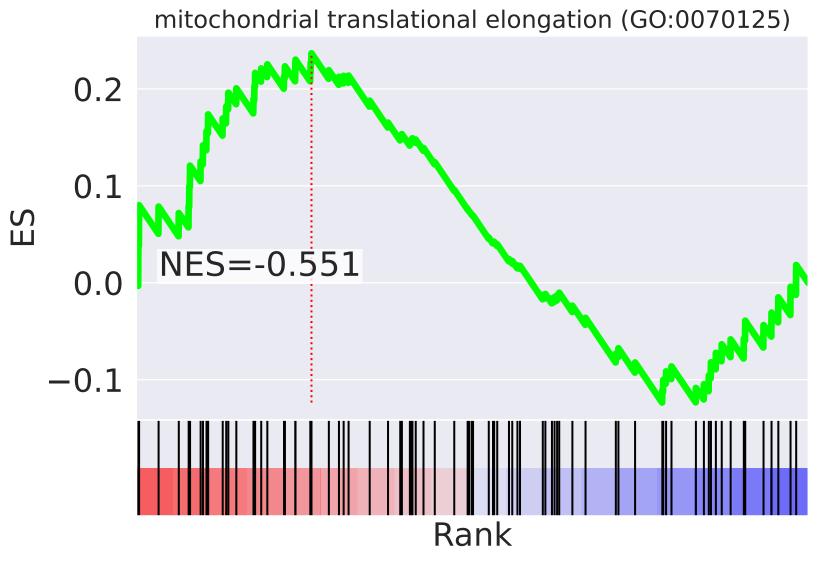
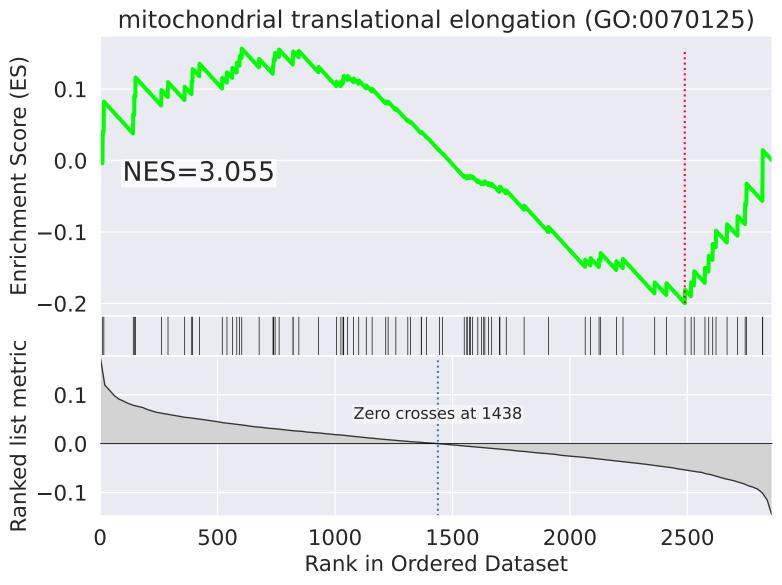


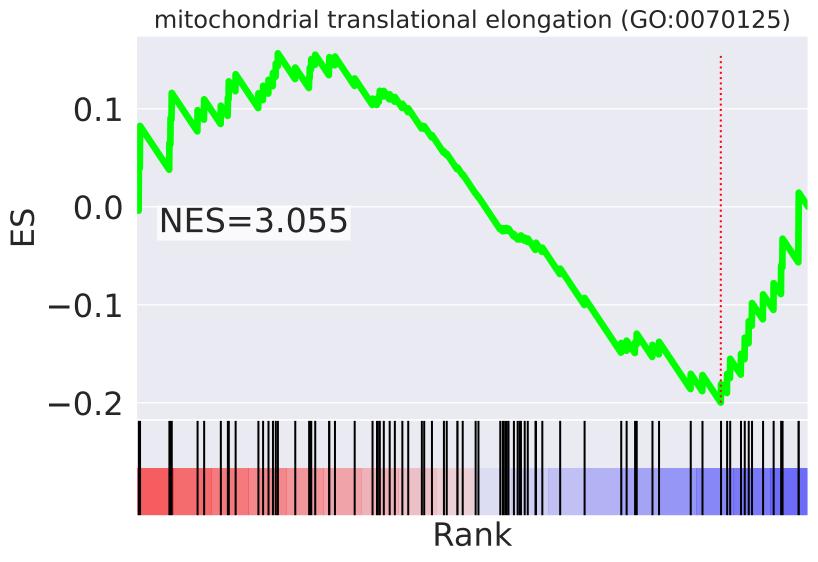
NES	SET
-3.372	transcription initiation from RNA polymerase II promoter (GO:0006367)
-3.032	transcription initiation from RNA polymerase I promoter (GO:0006361)
-3.032	transcription elongation from RNA polymerase I promoter (GO:0006362)
2.950	regulation of transcription, DNA-templated (GO:0006355)
-2.922	termination of RNA polymerase I transcription (GO:0006363)
-2.911	tRNA splicing, via endonucleolytic cleavage and ligation (GO:0006388)
-2.807	nucleotide-excision repair, preincision complex assembly (GO:0006294)
-2.661	CENP-A containing nucleosome assembly (GO:0034080)
2.600	humoral immune response (GO:0006959)
-2.594	Fc-gamma receptor signaling pathway involved in phagocytosis (GO:0038096)
-2.521	negative regulation of cell cycle arrest (GO:0071157)
-2.507	mitotic DNA replication checkpoint (GO:0033314)
2.473	transcription from RNA polymerase III promoter (GO:0006383)
2.385	heart development (GO:0007507)
2.362	regulation of telomere maintenance (GO:0032204)



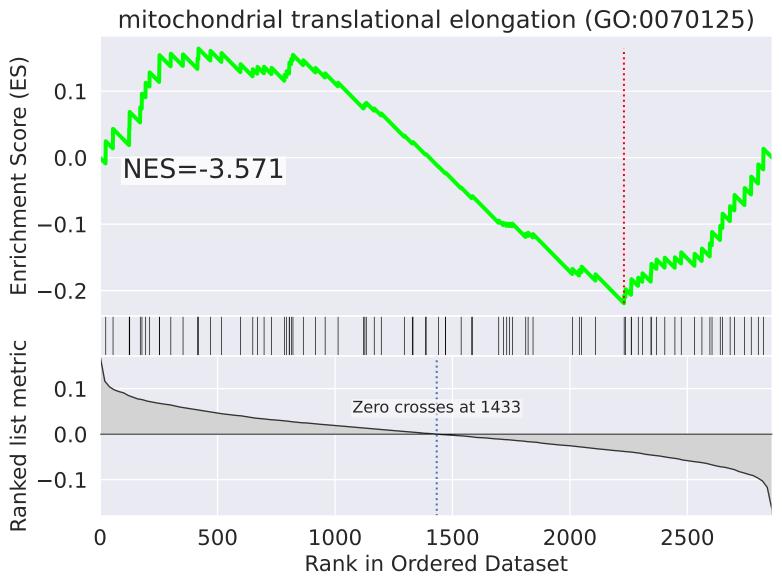


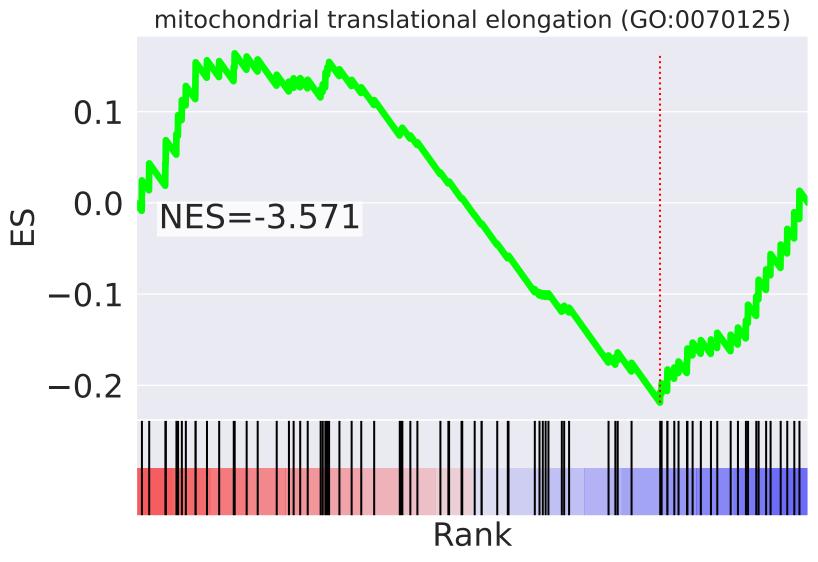
NES	SET
4.369	post-translational protein modification (GO:0043687)
4.295	regulation of cellular amino acid metabolic process (GO:0006521)
4.185	transmembrane transport (GO:0055085)
4.179	negative regulation of canonical Wnt signaling pathway (GO:0090090)
4.016	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
4.004	anaphase-promoting complex-dependent catabolic process (GO:0031145)
3.952	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process (GO:0031146)
3.940	protein polyubiquitination (GO:0000209)
3.929	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
3.839	negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle (GO:0051436)
3.721	RNA splicing (GO:0008380)
3.692	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)
3.659	proteasome-mediated ubiquitin-dependent protein catabolic process (GO:0043161)
3.610	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
3.603	mRNA export from nucleus (GO:0006406)



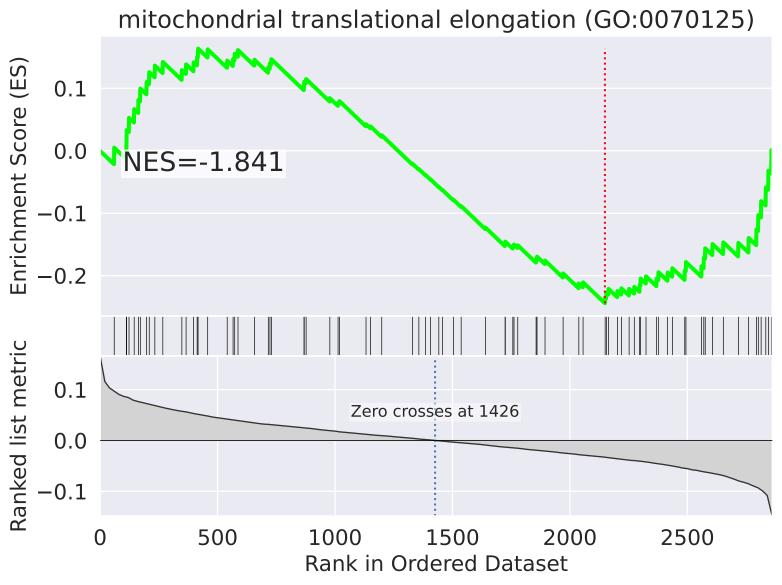


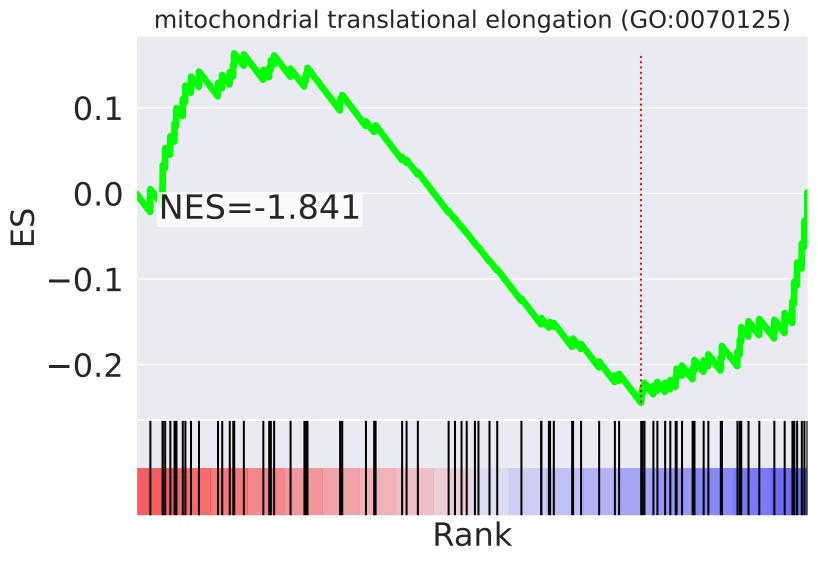
NES	SET
3.654	tricarboxylic acid cycle (GO:0006099)
3.055	mitochondrial translational elongation (GO:0070125)
2.946	positive regulation of TOR signaling (GO:0032008)
-2.872	mitotic metaphase plate congression (GO:0007080)
2.868	mitochondrial translational termination (GO:0070126)
2.866	nucleobase-containing compound metabolic process (GO:0006139)
2.829	cellular nitrogen compound metabolic process (GO:0034641)
2.829	nervous system development (GO:0007399)
-2.762	mitotic cell cycle (GO:0000278)
2.742	humoral immune response (GO:0006959)
-2.722	chromosome segregation (GO:0007059)
-2.707	intra-Golgi vesicle-mediated transport (GO:0006891)
2.693	histone H3 acetylation (GO:0043966)
2.672	cellular response to amino acid stimulus (GO:0071230)
-2.652	single organismal cell-cell adhesion (GO:0016337)



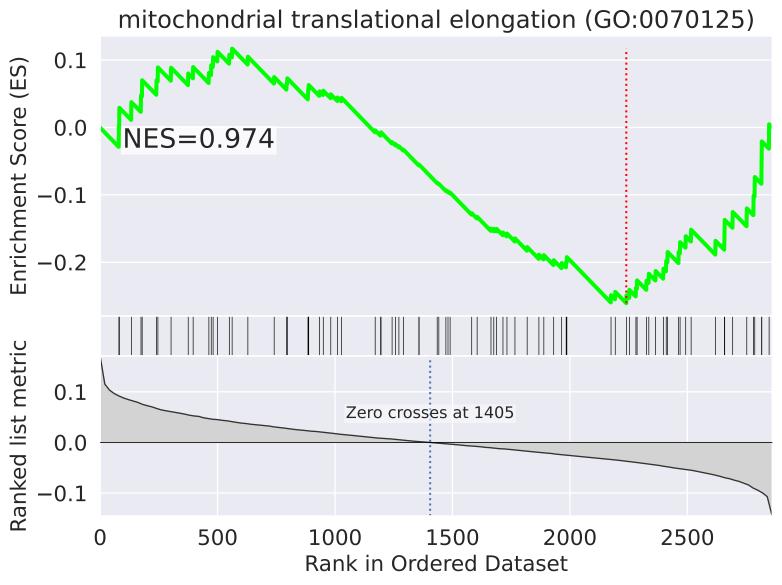


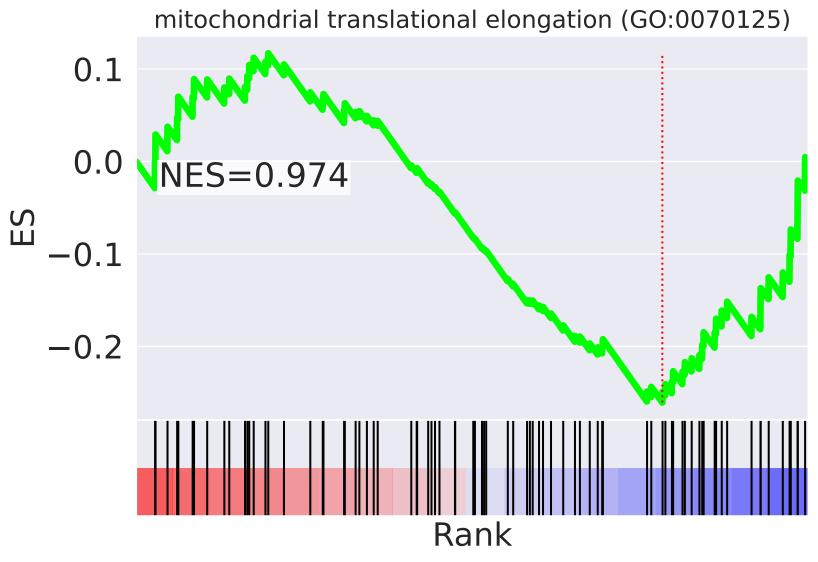
NES	SET
3.863	mitochondrial respiratory chain complex I assembly (GO:0032981)
-3.571	mitochondrial translational elongation (GO:0070125)
-3.554	mitochondrial translational termination (GO:0070126)
3.542	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
-3.069	Golgi organization (GO:0007030)
-3.058	regulation of signal transduction by p53 class mediator (GO:1901796)
-2.960	COPII vesicle coating (GO:0048208)
-2.957	autophagy (GO:0006914)
-2.955	intracellular protein transport (GO:0006886)
2.805	double-strand break repair via homologous recombination (GO:0000724)
-2.663	retrograde vesicle-mediated transport, Golgi to ER (GO:0006890)
2.629	cellular nitrogen compound metabolic process (GO:0034641)
-2.552	7-methylguanosine mRNA capping (GO:0006370)
2.546	generation of precursor metabolites and energy (GO:0006091)
2.444	response to unfolded protein (GO:0006986)



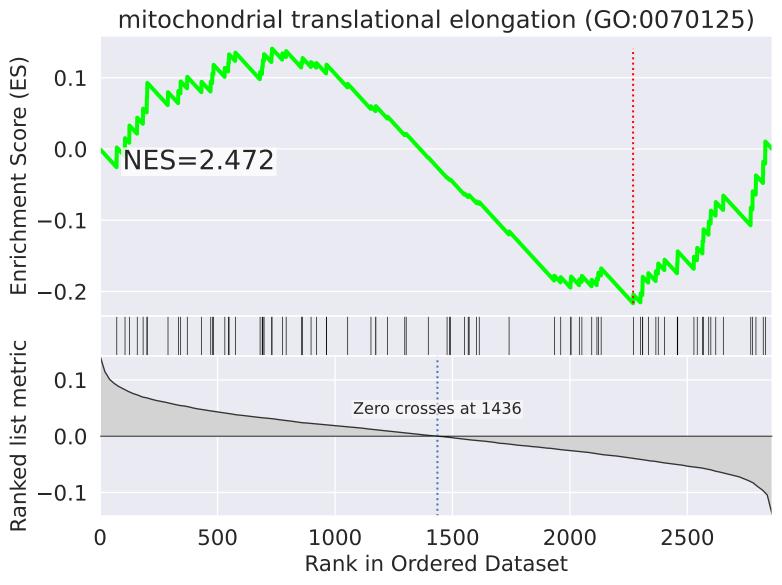


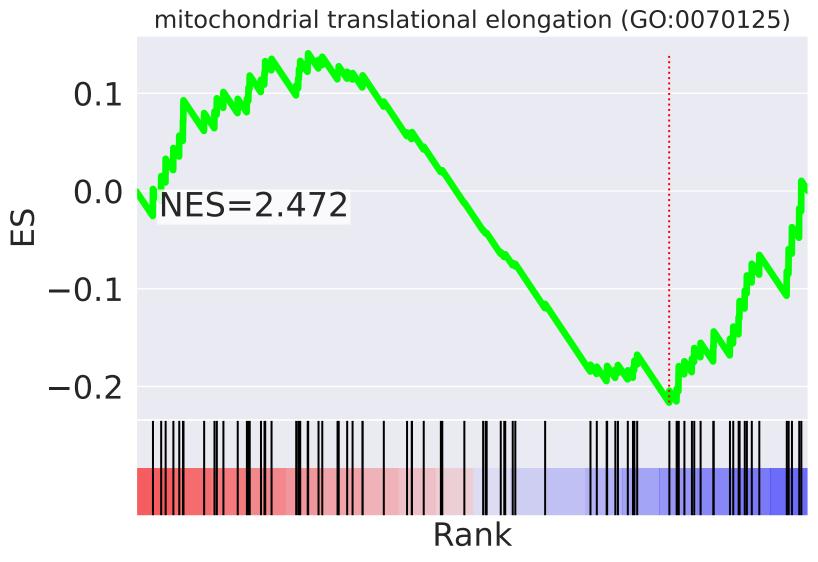
NES	SET
3.528	translational initiation (GO:0006413)
3.329	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
-3.108	ciliary basal body docking (GO:0097711)
2.905	I-kappaB kinase/NF-kappaB signaling (GO:0007249)
-2.706	ER to Golgi vesicle-mediated transport (GO:0006888)
2.650	heart development (GO:0007507)
-2.634	COPII vesicle coating (GO:0048208)
-2.615	exocytosis (GO:0006887)
-2.594	Golgi organization (GO:0007030)
-2.562	anaphase-promoting complex-dependent catabolic process (GO:0031145)
2.549	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
2.537	positive regulation of type I interferon production (GO:0032481)
-2.518	regulation of defense response to virus by virus (GO:0050690)
2.498	negative regulation of gene expression (GO:0010629)
2.494	positive regulation of NF-kappaB transcription factor activity (GO:0051092)



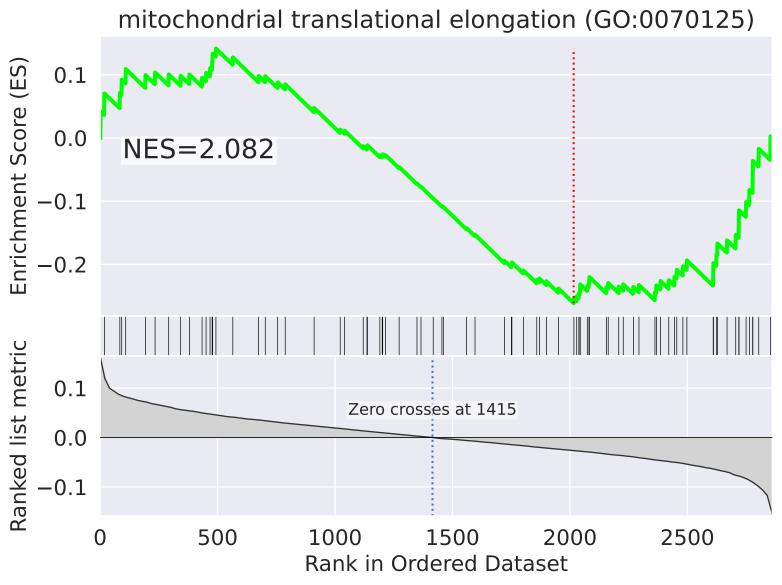


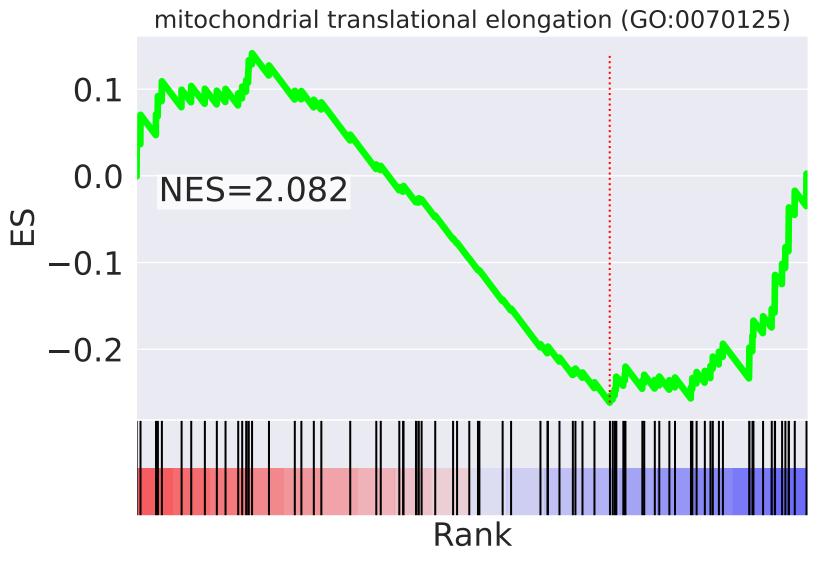
NES	SET
-2.908	DNA replication (GO:0006260)
-2.863	error-prone translesion synthesis (GO:0042276)
-2.777	positive regulation of protein catabolic process (GO:0045732)
2.774	cell differentiation (GO:0030154)
2.667	nervous system development (GO:0007399)
-2.658	telomere maintenance via recombination (GO:0000722)
-2.651	double-strand break repair via homologous recombination (GO:0000724)
-2.621	cilium assembly (GO:0060271)
-2.618	chromosome segregation (GO:0007059)
2.616	positive regulation of TOR signaling (GO:0032008)
-2.614	beta-catenin destruction complex disassembly (GO:1904886)
-2.609	DNA-templated transcription, initiation (GO:0006352)
2.598	platelet activation (GO:0030168)
-2.576	DNA synthesis involved in DNA repair (GO:0000731)
-2.491	negative regulation of protein kinase activity (GO:0006469)



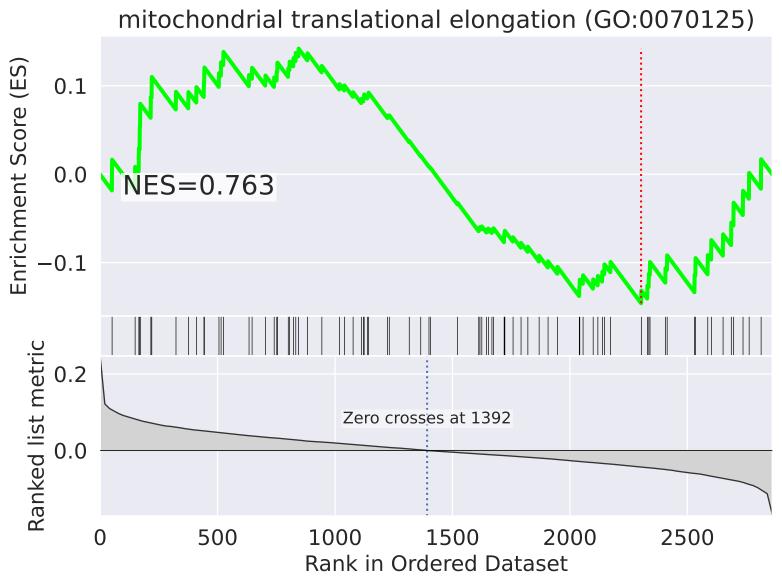


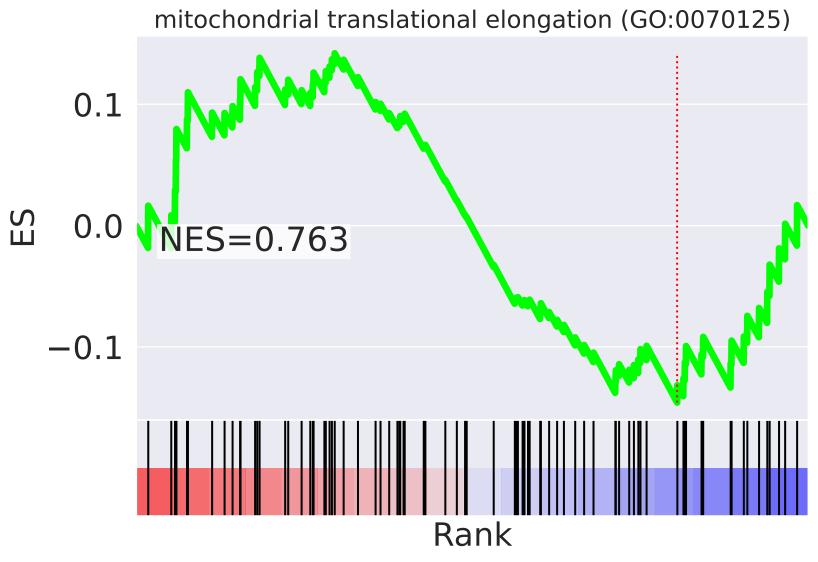
NES	SET
4.550	mitochondrial respiratory chain complex I assembly (GO:0032981)
-3.399	protein phosphorylation (GO:0006468)
-3.326	transforming growth factor beta receptor signaling pathway (GO:0007179)
3.287	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
-3.250	proteasome-mediated ubiquitin-dependent protein catabolic process (GO:0043161)
-3.244	MAPK cascade (GO:0000165)
-3.187	anaphase-promoting complex-dependent catabolic process (GO:0031145)
-3.081	tumor necrosis factor-mediated signaling pathway (GO:0033209)
-2.936	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
-2.936	membrane fusion (GO:0061025)
2.915	mitochondrial respiratory chain complex III assembly (GO:0034551)
-2.911	positive regulation of ubiquitin-protein ligase activity involved in regulation of mitotic cell cycle transition (GO:0051437)
2.842	tricarboxylic acid cycle (GO:0006099)
-2.833	post-translational protein modification (GO:0043687)
-2.750	nucleotide-excision repair, DNA damage recognition (GO:0000715)





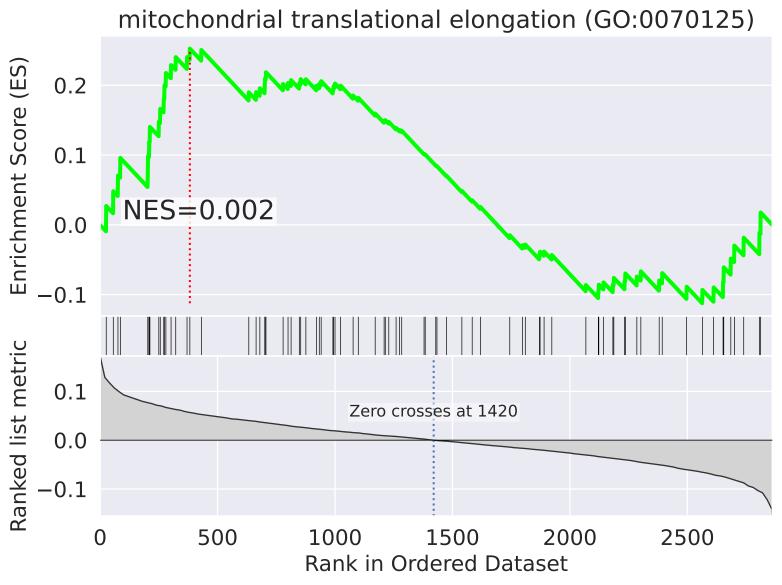
NES	SET
3.766	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
3.679	transmembrane transport (GO:0055085)
3.563	mRNA export from nucleus (GO:0006406)
-3.517	interstrand cross-link repair (GO:0036297)
3.487	regulation of cellular amino acid metabolic process (GO:0006521)
-3.475	transcription from RNA polymerase III promoter (GO:0006383)
3.446	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
3.393	protein polyubiquitination (GO:0000209)
3.389	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
3.381	ubiquitin-dependent ERAD pathway (GO:0030433)
3.299	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)
3.291	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.187	NIK/NF-kappaB signaling (GO:0038061)
3.168	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process (GO:0031146)
3.164	mitochondrial respiratory chain complex I assembly (GO:0032981)

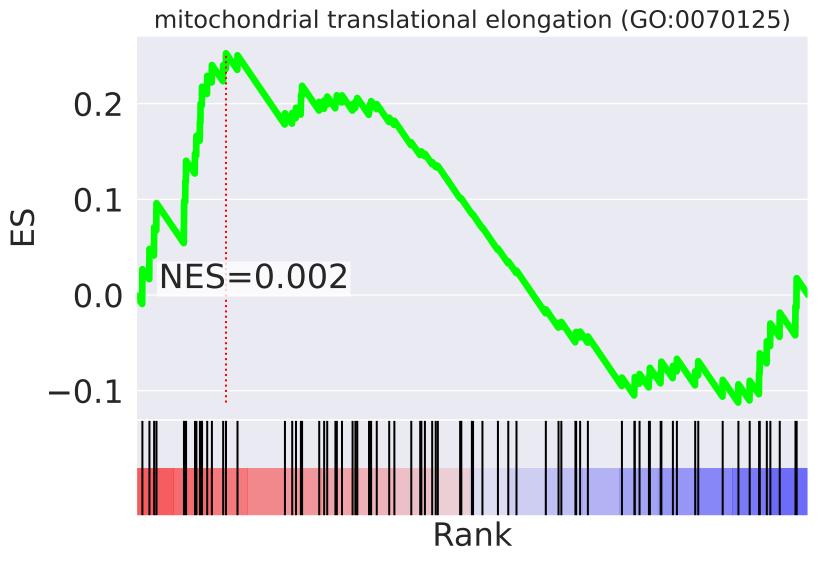




NES	SET
-4.611	mitochondrial respiratory chain complex I assembly (GO:0032981)
-4.318	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
-2.971	protein K11-linked ubiquitination (GO:0070979)
-2.828	negative regulation of cell proliferation (GO:0008285)
-2.775	platelet aggregation (GO:0070527)
-2.743	cell-matrix adhesion (GO:0007160)
2.705	protein tetramerization (GO:0051262)
2.686	type I interferon signaling pathway (GO:0060337)
-2.634	mitochondrial respiratory chain complex III assembly (GO:0034551)
-2.568	centriole replication (GO:0007099)
2.551	transcription elongation from RNA polymerase II promoter (GO:0006368)
2.542	transcription initiation from RNA polymerase II promoter (GO:0006367)
2.513	interferon-gamma-mediated signaling pathway (GO:0060333)
2.505	histone H2A acetylation (GO:0043968)
2.445	cholesterol biosynthetic process (GO:0006695)

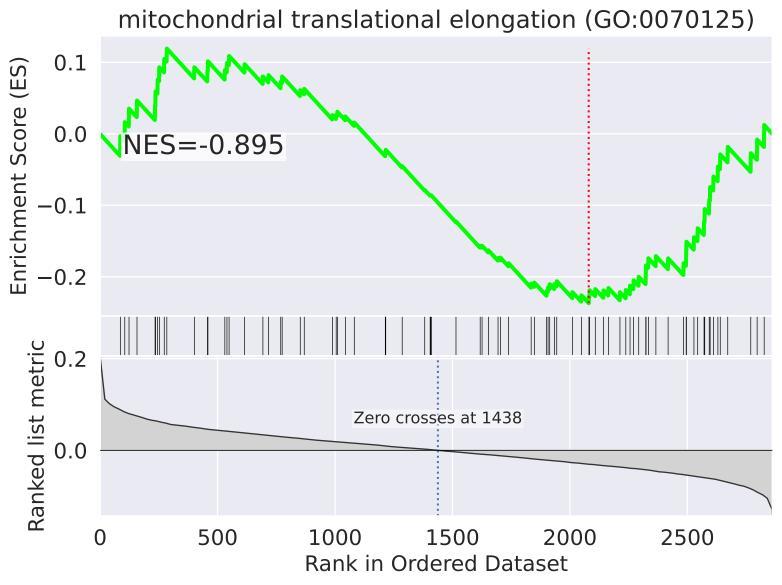
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=1

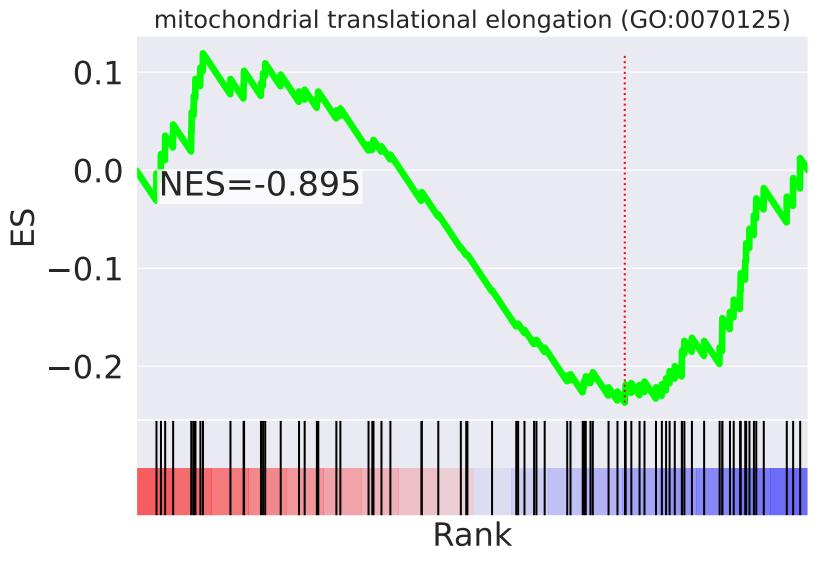




NES	SET
4.685	anaphase-promoting complex-dependent catabolic process (GO:0031145)
4.211	negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle (GO:0051436)
3.974	positive regulation of ubiquitin-protein ligase activity involved in regulation of mitotic cell cycle transition (GO:0051437)
3.713	mitochondrial respiratory chain complex I assembly (GO:0032981)
3.634	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.153	protein ubiquitination involved in ubiquitin-dependent protein catabolic process (GO:0042787)
3.050	nucleotide-excision repair, DNA damage recognition (GO:0000715)
2.945	NIK/NF-kappaB signaling (GO:0038061)
-2.902	positive regulation of osteoblast differentiation (GO:0045669)
2.882	nucleosome disassembly (GO:0006337)
2.854	regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle (GO:0051439)
2.821	positive regulation of canonical Wnt signaling pathway (GO:0090263)
2.800	protein deneddylation (GO:0000338)
-2.777	DNA-templated transcription, initiation (GO:0006352)
-2.745	rRNA processing (GO:0006364)

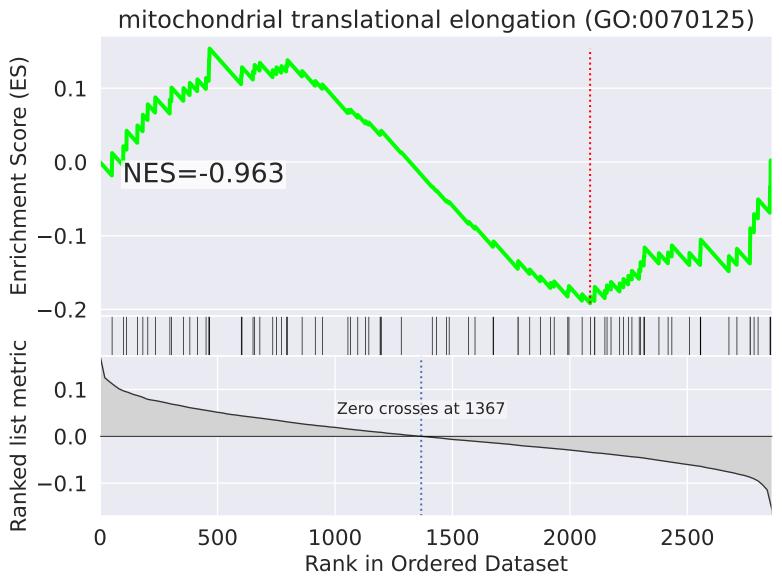
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=13

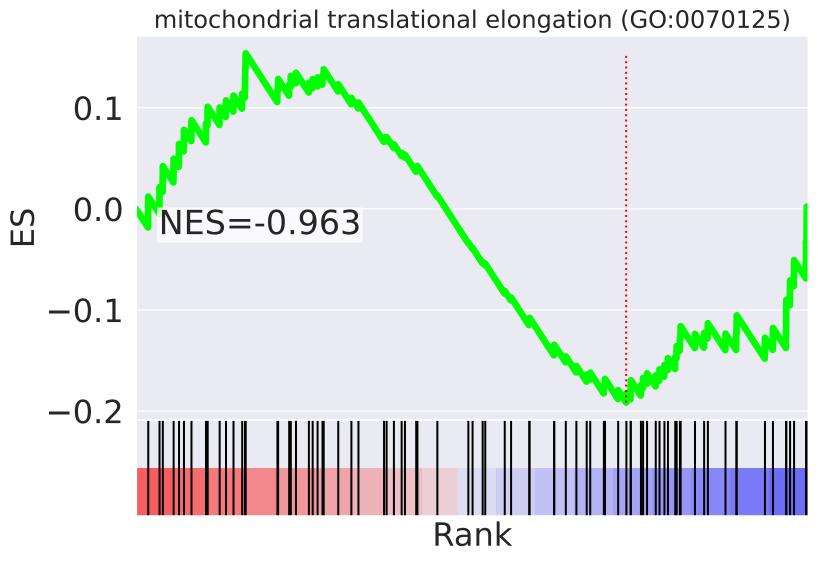




NES	SET	
-3.596	mitoch	nondrial respiratory chain complex I assembly (GO:0032981)
-3.587	mitoch	nondrial electron transport, NADH to ubiquinone (GO:0006120)
-3.429	MAPK	cascade (GO:0000165)
3.342	ATP-de	ependent chromatin remodeling (GO:0043044)
-3.221	chrom	osome segregation (GO:0007059)
-3.147	splice	osomal complex assembly (GO:0000245)
-3.065	negati	ive regulation of canonical Wnt signaling pathway (GO:0090090)
2.941	heme	biosynthetic process (GO:0006783)
2.933	positiv	regulation of ATPase activity (GO:0032781)
-2.878	anaph	ase-promoting complex-dependent catabolic process (GO:0031145)
-2.849	cell-m	atrix adhesion (GO:0007160)
-2.839	mitoti	c metaphase plate congression (GO:0007080)
-2.829	viral li	fe cycle (GO:0019058)
2.793	transc	ription elongation from RNA polymerase II promoter (GO:0006368)
2.708	positiv	regulation of neuron differentiation (GO:0045666)

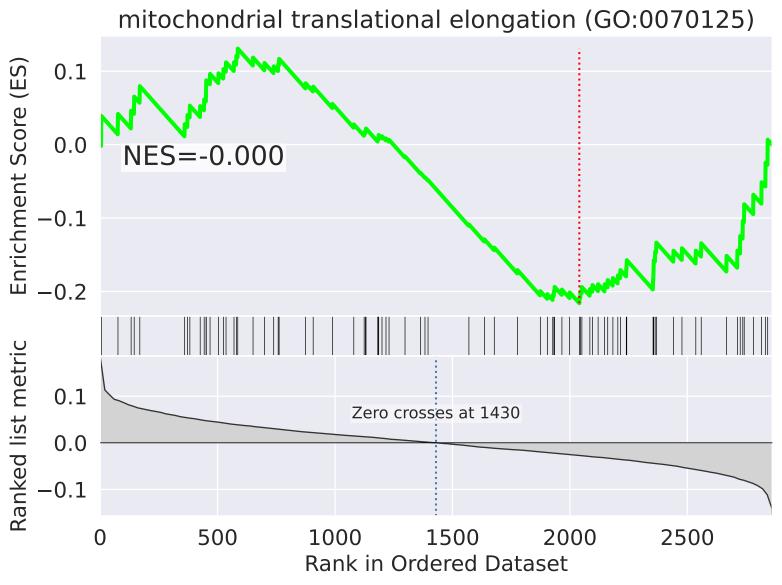
ne three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension zero.	=12

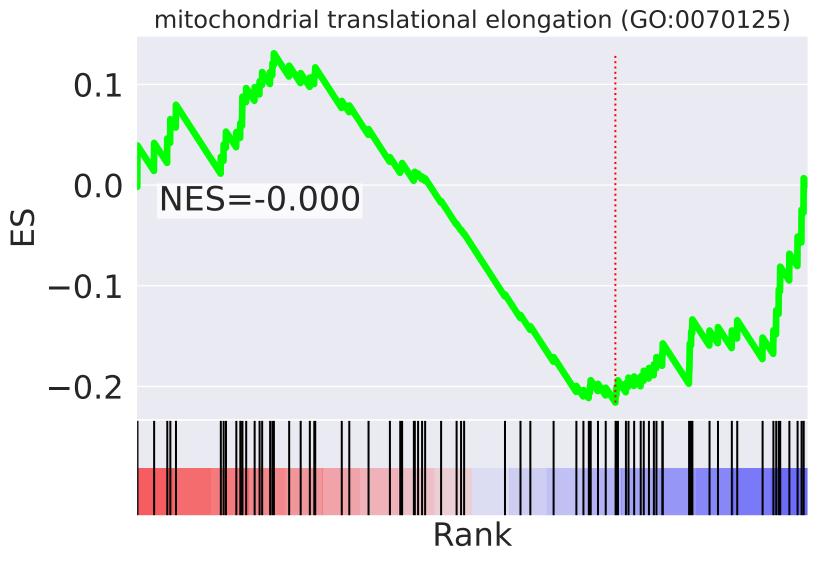




NES	SET
5.094	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
4.836	translational initiation (GO:0006413)
4.157	viral transcription (GO:0019083)
4.020	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
3.660	interstrand cross-link repair (GO:0036297)
-3.562	phosphatidylinositol-mediated signaling (GO:0048015)
-3.534	transcription initiation from RNA polymerase II promoter (GO:0006367)
3.485	rRNA processing (GO:0006364)
-2.959	ER to Golgi vesicle-mediated transport (GO:0006888)
-2.894	phosphorylation (GO:0016310)
-2.852	regulation of defense response to virus by virus (GO:0050690)
-2.823	retrograde vesicle-mediated transport, Golgi to ER (GO:0006890)
2.795	negative regulation of TOR signaling (GO:0032007)
-2.773	protein autophosphorylation (GO:0046777)
2.722	negative regulation of cell growth (GO:0030308)

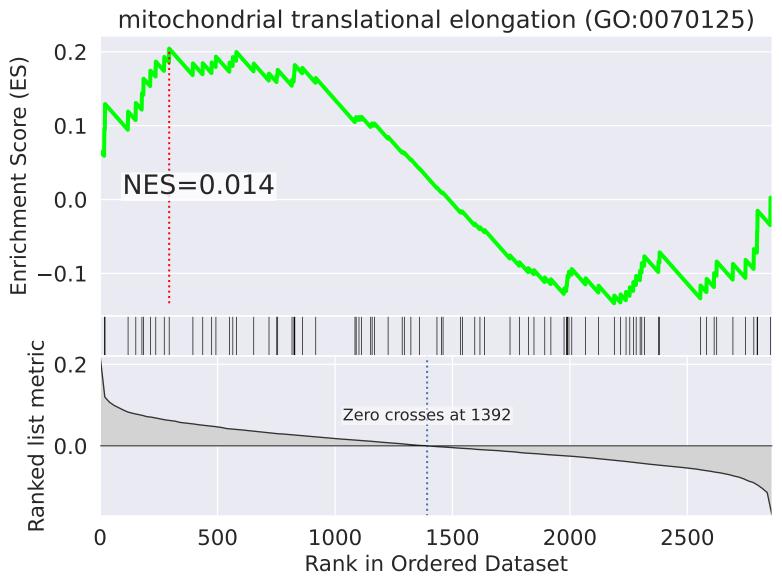
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=13

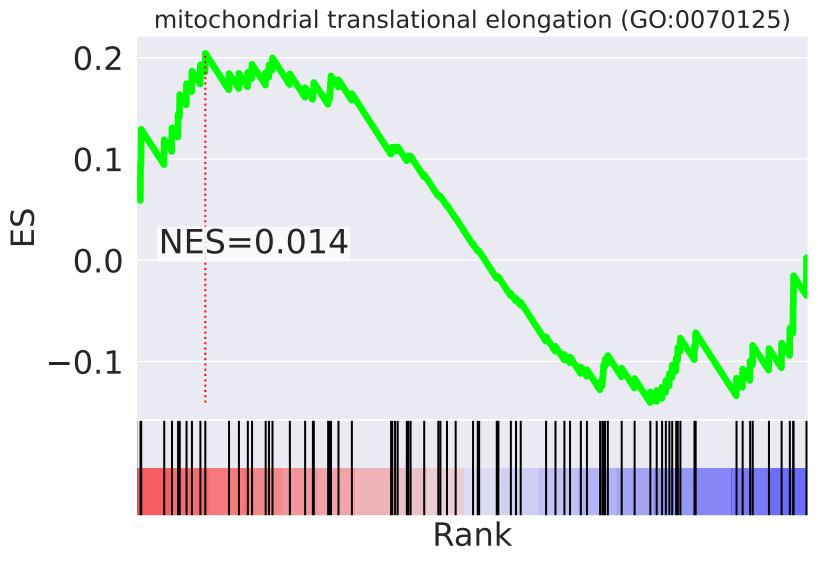




NES	SET
4.945	Fc-epsilon receptor signaling pathway (GO:0038095)
4.635	T cell receptor signaling pathway (GO:0050852)
4.580	regulation of cellular amino acid metabolic process (GO:0006521)
4.394	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
4.387	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
4.371	positive regulation of canonical Wnt signaling pathway (GO:0090263)
4.364	protein polyubiquitination (GO:0000209)
4.312	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
4.274	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process (GO:0031146)
4.104	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
4.058	tumor necrosis factor-mediated signaling pathway (GO:0033209)
3.930	negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle (GO:0051436)
3.809	anaphase-promoting complex-dependent catabolic process (GO:0031145)
3.655	positive regulation of ubiquitin-protein ligase activity involved in regulation of mitotic cell cycle transition (GO:0051437)
3.639	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)

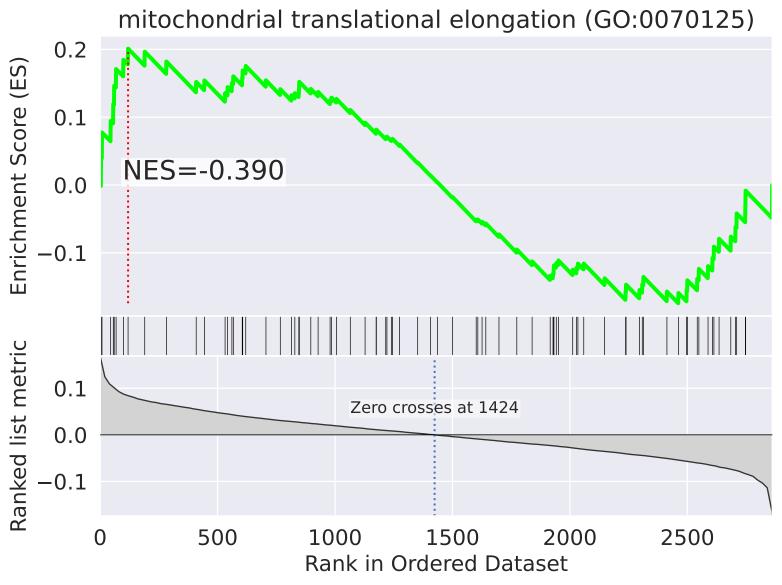
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=14

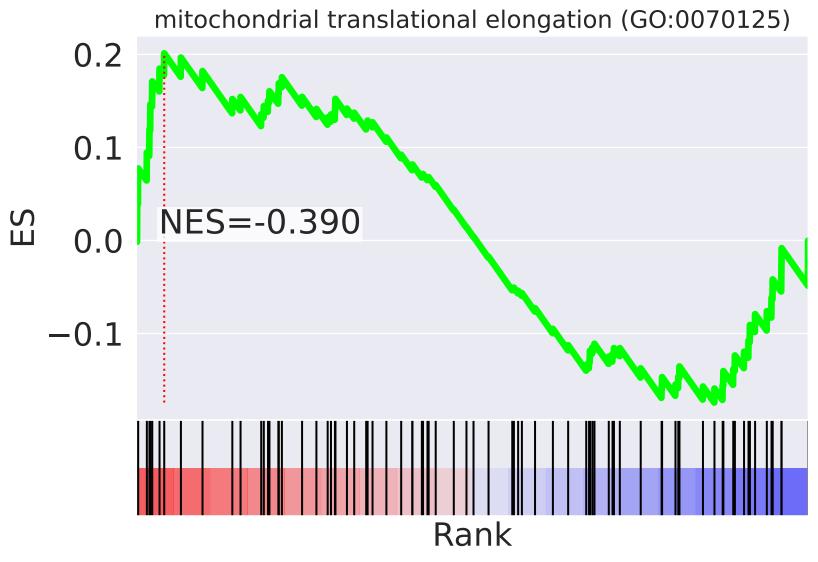




NES	SET
3.997	mRNA export from nucleus (GO:0006406)
-3.560	transcription from RNA polymerase III promoter (GO:0006383)
3.456	RNA export from nucleus (GO:0006405)
3.248	protein sumoylation (GO:0016925)
3.016	protein ubiquitination (GO:0016567)
2.973	regulation of gene silencing by miRNA (GO:0060964)
2.969	viral process (GO:0016032)
2.955	tricarboxylic acid cycle (GO:0006099)
2.952	termination of RNA polymerase II transcription (GO:0006369)
-2.905	termination of RNA polymerase I transcription (GO:0006363)
2.863	intracellular steroid hormone receptor signaling pathway (GO:0030518)
2.827	purine ribonucleoside monophosphate biosynthetic process (GO:0009168)
2.808	intracellular transport of virus (GO:0075733)
2.778	androgen receptor signaling pathway (GO:0030521)
-2.749	muscle contraction (GO:0006936)

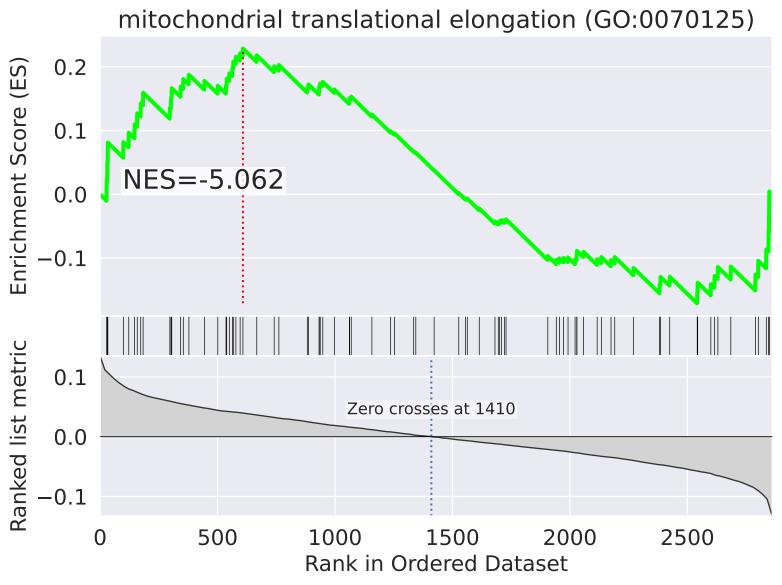
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=15

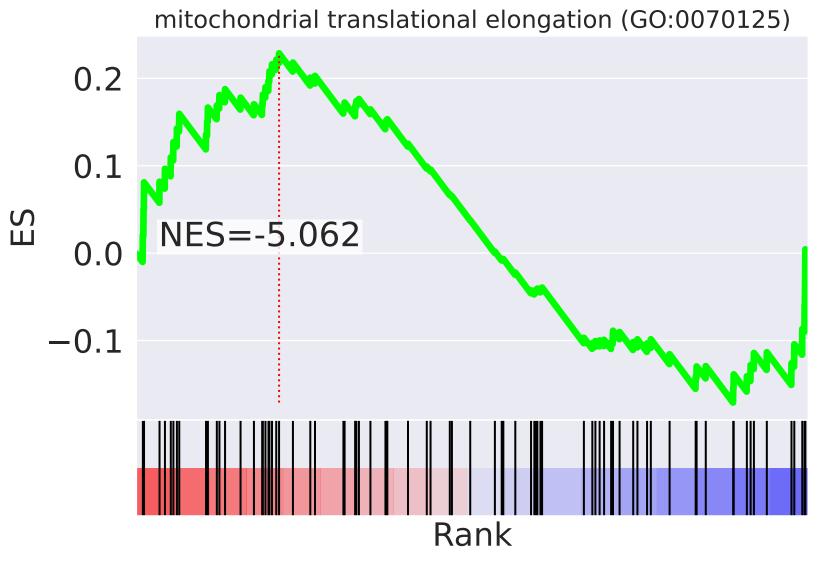




NES	SET
3.850	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
3.156	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-3.045	sister chromatid cohesion (GO:0007062)
3.033	mitochondrial respiratory chain complex I assembly (GO:0032981)
2.981	JNK cascade (GO:0007254)
2.943	multivesicular body assembly (GO:0036258)
2.862	positive regulation of NF-kappaB transcription factor activity (GO:0051092)
-2.841	viral process (GO:0016032)
2.833	regulation of tumor necrosis factor-mediated signaling pathway (GO:0010803)
2.766	interstrand cross-link repair (GO:0036297)
2.719	negative regulation of gene expression (GO:0010629)
-2.684	mitotic nuclear envelope disassembly (GO:0007077)
2.679	nucleotide-binding oligomerization domain containing signaling pathway (GO:0070423)
2.667	positive regulation of cell differentiation (GO:0045597)
2.664	positive regulation of GTPase activity (GO:0043547)

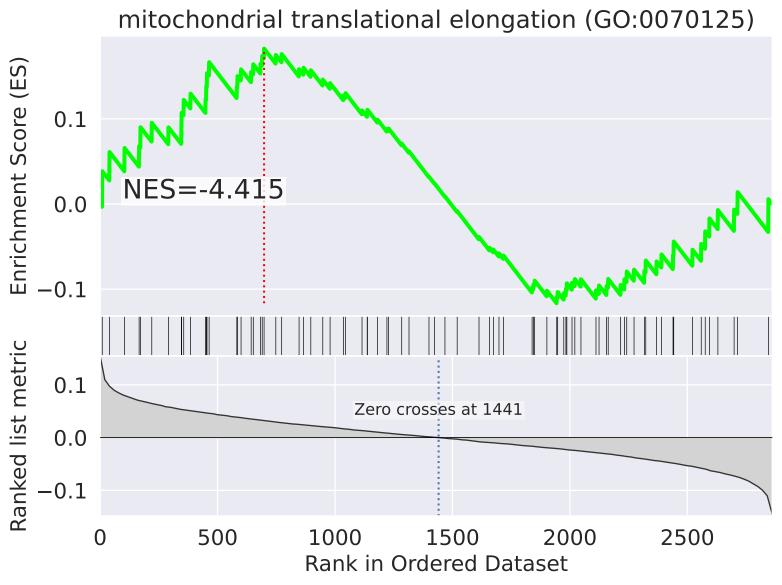
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=16

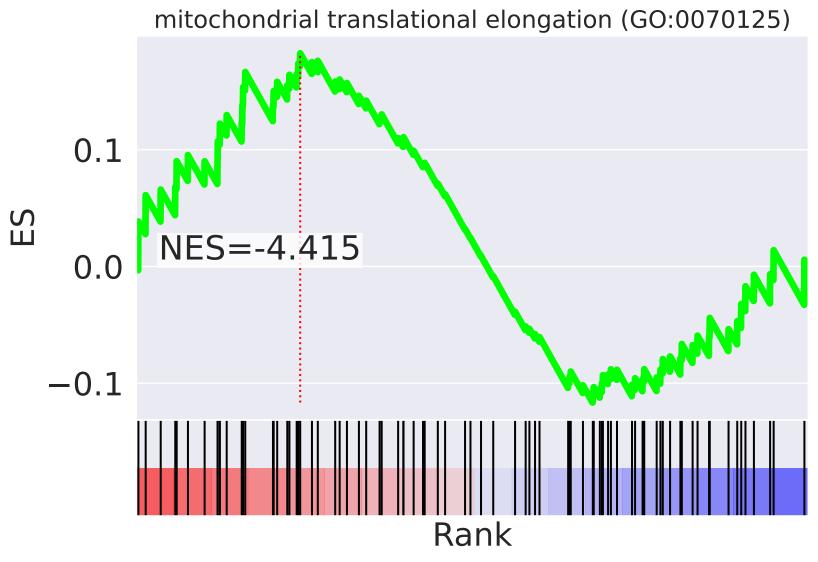




NES	SET
-5.062	mitochondrial translational elongation (GO:0070125)
5.025	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
-4.971	mitochondrial translational termination (GO:0070126)
4.936	anaphase-promoting complex-dependent catabolic process (GO:0031145)
4.928	regulation of cellular amino acid metabolic process (GO:0006521)
4.926	positive regulation of ubiquitin-protein ligase activity involved in regulation of mitotic cell cycle transition (GO:0051437)
4.889	negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle (GO:0051436)
4.858	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process (GO:0031146)
4.839	NIK/NF-kappaB signaling (GO:0038061)
4.798	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
4.699	tumor necrosis factor-mediated signaling pathway (GO:0033209)
4.653	MAPK cascade (GO:0000165)
4.608	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
4.504	positive regulation of canonical Wnt signaling pathway (GO:0090263)
4.455	regulation of mRNA stability (GO:0043488)

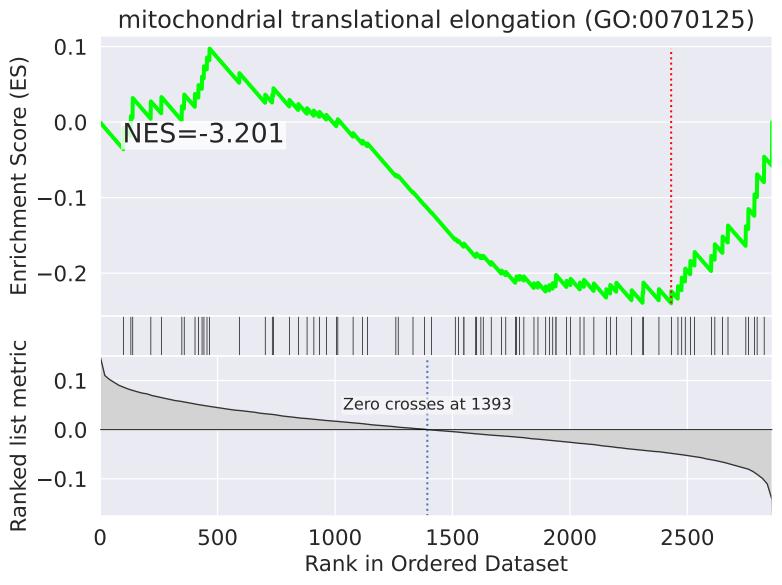
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=17

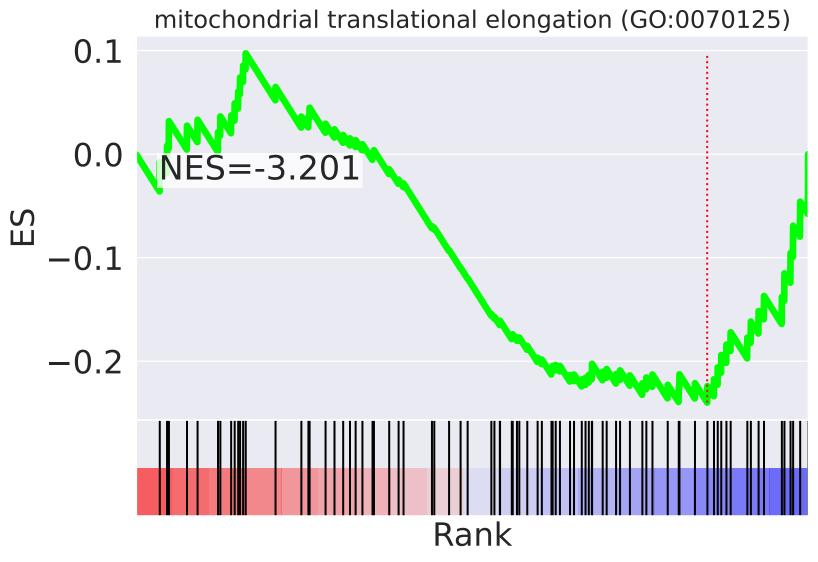




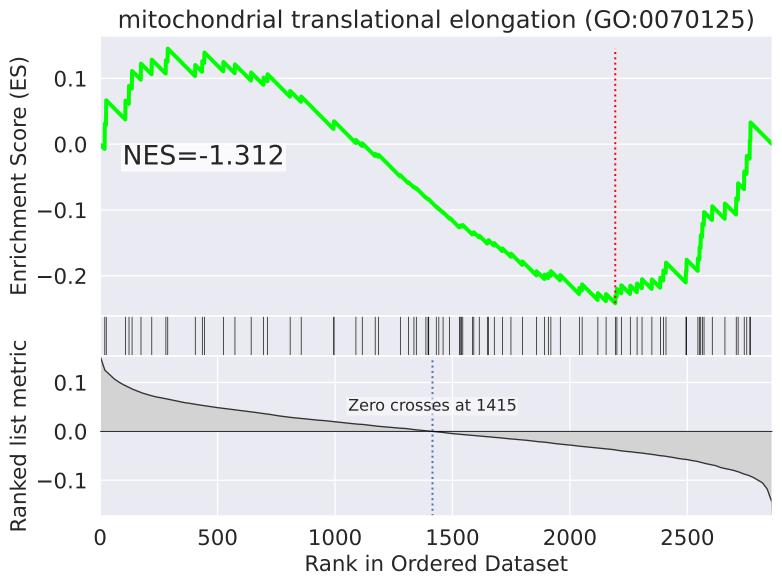
NES	SET
5.257	translational initiation (GO:0006413)
4.668	viral transcription (GO:0019083)
4.623	Fc-epsilon receptor signaling pathway (GO:0038095)
4.586	T cell receptor signaling pathway (GO:0050852)
4.501	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
-4.429	mitochondrial translational termination (GO:0070126)
-4.415	mitochondrial translational elongation (GO:0070125)
4.360	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
4.109	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
4.026	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
3.921	positive regulation of ubiquitin-protein ligase activity involved in regulation of mitotic cell cycle transition (GO:0051437)
3.851	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
3.850	anaphase-promoting complex-dependent catabolic process (GO:0031145)
3.768	protein polyubiquitination (GO:0000209)
3.742	regulation of cellular amino acid metabolic process (GO:0006521)

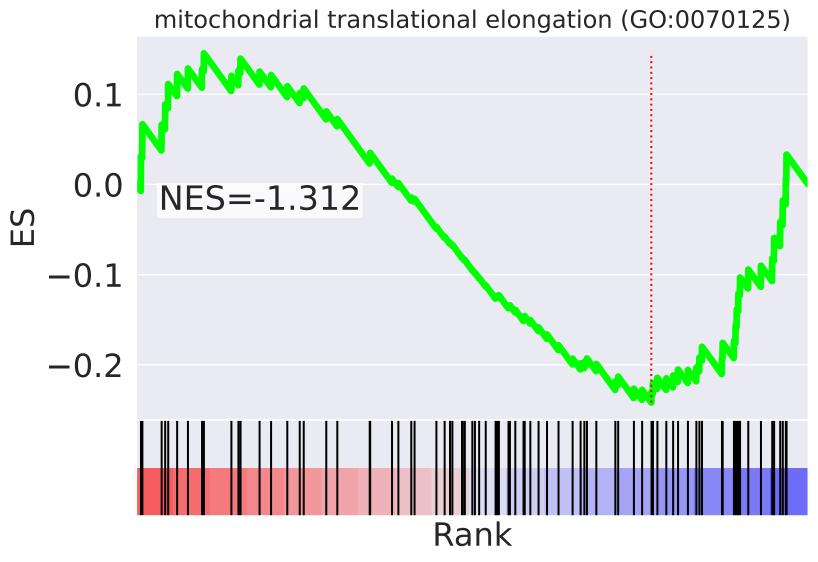
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=18



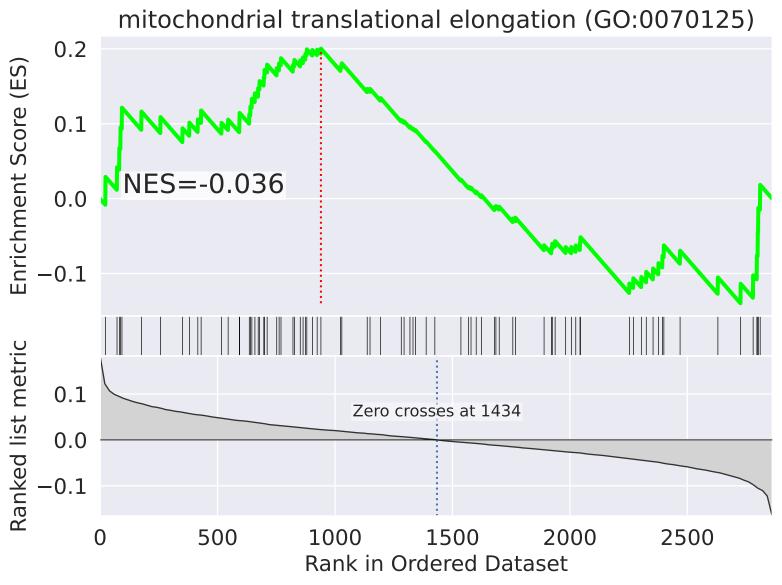


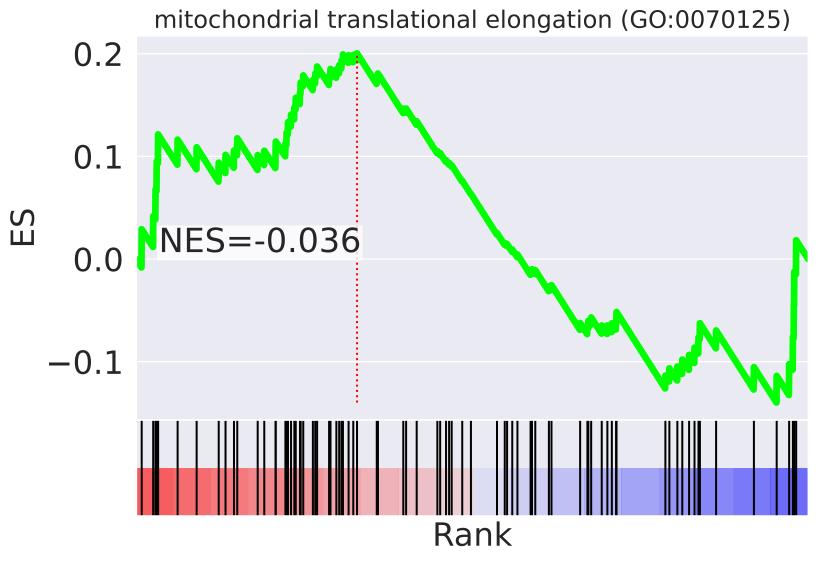
NES	SET
-3.357	mitochondrial translational termination (GO:0070126)
3.290	purine ribonucleoside monophosphate biosynthetic process (GO:0009168)
-3.201	mitochondrial translational elongation (GO:0070125)
-2.950	G1/S transition of mitotic cell cycle (G0:0000082)
-2.893	glycosaminoglycan biosynthetic process (GO:0006024)
-2.838	positive regulation of telomerase RNA localization to Cajal body (GO:1904874)
-2.823	replication fork processing (GO:0031297)
-2.791	negative regulation of protein binding (GO:0032091)
-2.784	nucleotide-excision repair, DNA gap filling (GO:0006297)
-2.761	IRE1-mediated unfolded protein response (GO:0036498)
2.726	endocytosis (GO:0006897)
2.699	nucleocytoplasmic transport (GO:0006913)
-2.643	peptidyl-tyrosine phosphorylation (GO:0018108)
2.641	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
2.594	receptor internalization (GO:0031623)



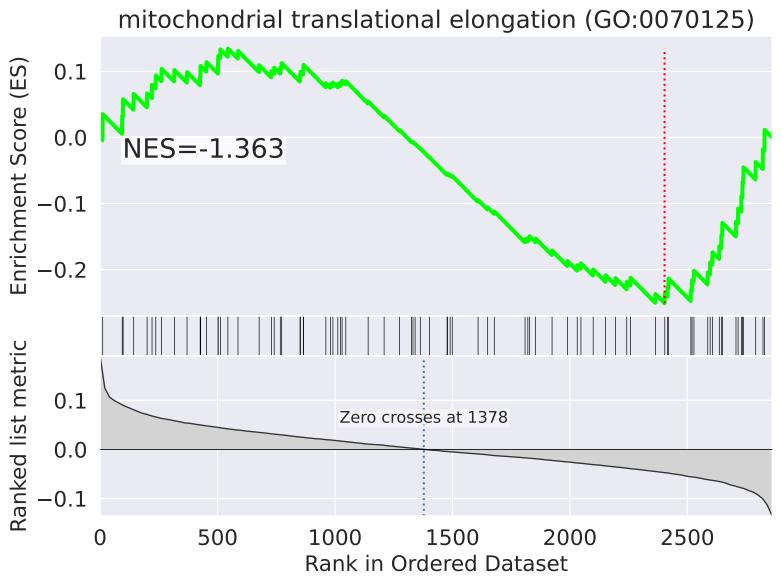


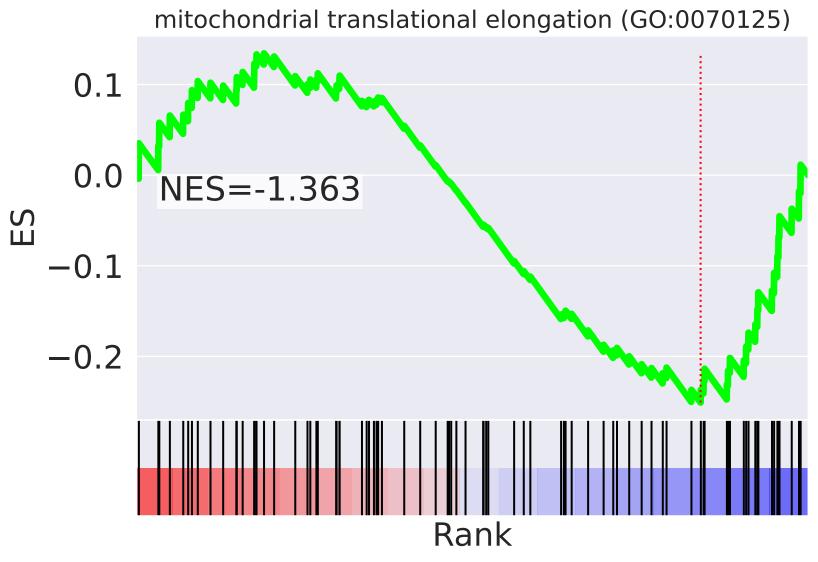
NES	SET
-3.155	RNA splicing (GO:0008380)
3.030	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
2.898	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
-2.878	transcription initiation from RNA polymerase II promoter (GO:0006367)
-2.724	beta-catenin-TCF complex assembly (GO:1904837)
-2.651	centriole replication (GO:0007099)
2.648	cilium assembly (GO:0060271)
-2.615	spliceosomal complex assembly (GO:0000245)
2.615	translational initiation (GO:0006413)
-2.596	central nervous system development (GO:0007417)
-2.520	positive regulation of transcription initiation from RNA polymerase II promoter (GO:0060261)
-2.497	protein localization to kinetochore (GO:0034501)
-2.473	cytoplasmic microtubule organization (GO:0031122)
-2.471	iron-sulfur cluster assembly (GO:0016226)
2.463	viral transcription (GO:0019083)



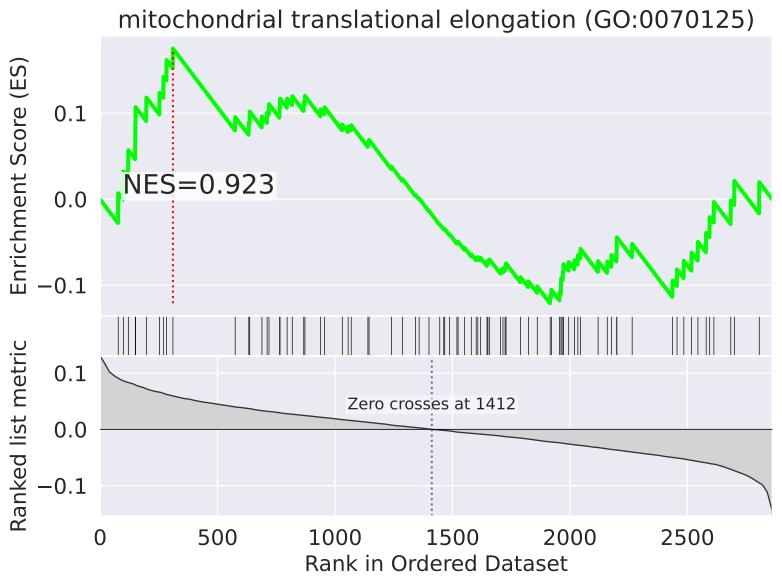


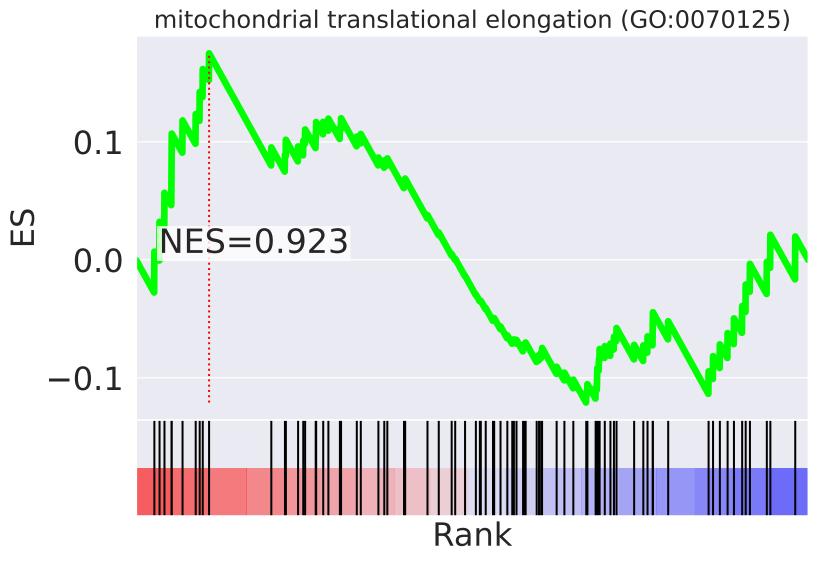
NES	SET
5.044	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
4.536	Fc-epsilon receptor signaling pathway (GO:0038095)
4.519	T cell receptor signaling pathway (GO:0050852)
4.259	NIK/NF-kappaB signaling (GO:0038061)
4.216	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
4.172	tumor necrosis factor-mediated signaling pathway (GO:0033209)
4.144	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)
4.125	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
4.037	regulation of cellular amino acid metabolic process (GO:0006521)
3.918	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
3.868	negative regulation of canonical Wnt signaling pathway (GO:0090090)
3.787	positive regulation of NF-kappaB transcription factor activity (GO:0051092)
3.772	transmembrane transport (GO:0055085)
3.698	positive regulation of canonical Wnt signaling pathway (GO:0090263)
3.642	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process (GO:0031146)



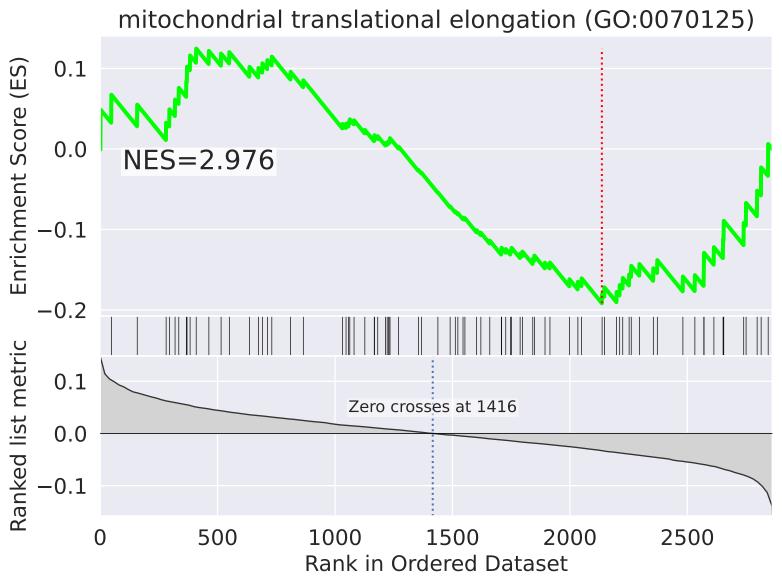


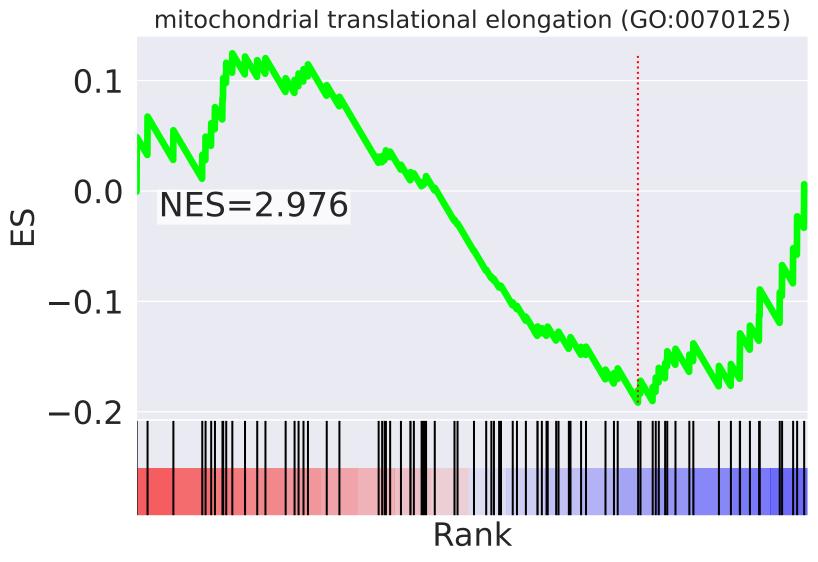
NES	SET
-3.277	regulation of cell proliferation (GO:0042127)
3.090	negative regulation of TOR signaling (GO:0032007)
3.080	negative regulation of transcription from RNA polymerase II promoter (GO:0000122)
-2.930	nucleotide-excision repair, DNA damage recognition (GO:0000715)
-2.874	protein deneddylation (GO:0000338)
-2.864	mitochondrial respiratory chain complex I assembly (GO:0032981)
2.863	tricarboxylic acid cycle (GO:0006099)
2.840	membrane organization (GO:0061024)
2.825	purine ribonucleoside monophosphate biosynthetic process (GO:0009168)
2.676	intracellular protein transport (GO:0006886)
2.647	nucleobase-containing compound metabolic process (GO:0006139)
-2.617	positive regulation of G2/M transition of mitotic cell cycle (GO:0010971)
2.595	positive regulation of DNA-templated transcription, elongation (GO:0032786)
2.495	cellular response to lipopolysaccharide (GO:0071222)
2.493	transferrin transport (GO:0033572)



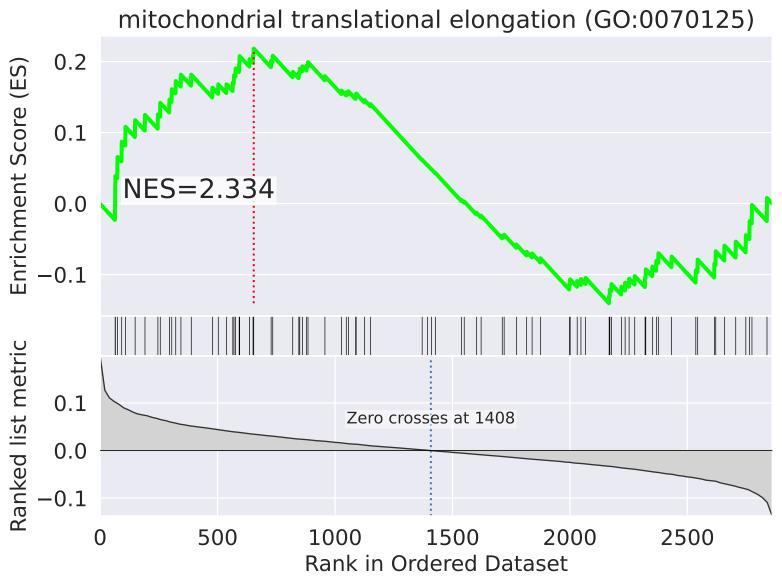


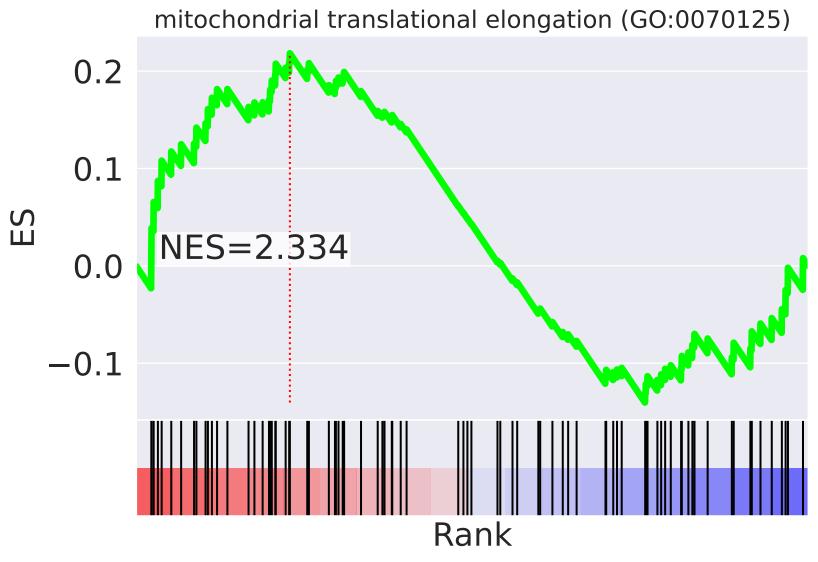
NES	SET
5.524	mitochondrial respiratory chain complex I assembly (GO:0032981)
4.642	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.209	tricarboxylic acid cycle (GO:0006099)
-2.856	transcription from RNA polymerase III promoter (GO:0006383)
-2.759	regulation of small GTPase mediated signal transduction (GO:0051056)
-2.745	regulation of mitophagy (GO:1903146)
-2.703	G2/M transition of mitotic cell cycle (GO:0000086)
-2.692	positive regulation of type I interferon production (GO:0032481)
-2.631	adherens junction organization (GO:0034332)
2.597	respiratory chain complex IV assembly (GO:0008535)
2.516	cellular nitrogen compound metabolic process (GO:0034641)
-2.475	transcription, DNA-templated (GO:0006351)
2.456	spermatogenesis (GO:0007283)
-2.451	hemopoiesis (GO:0030097)
-2.448	microtubule bundle formation (GO:0001578)



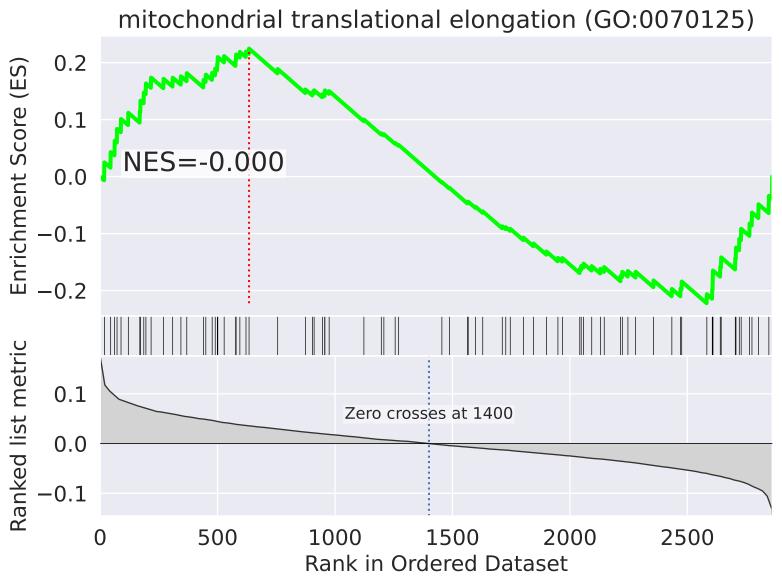


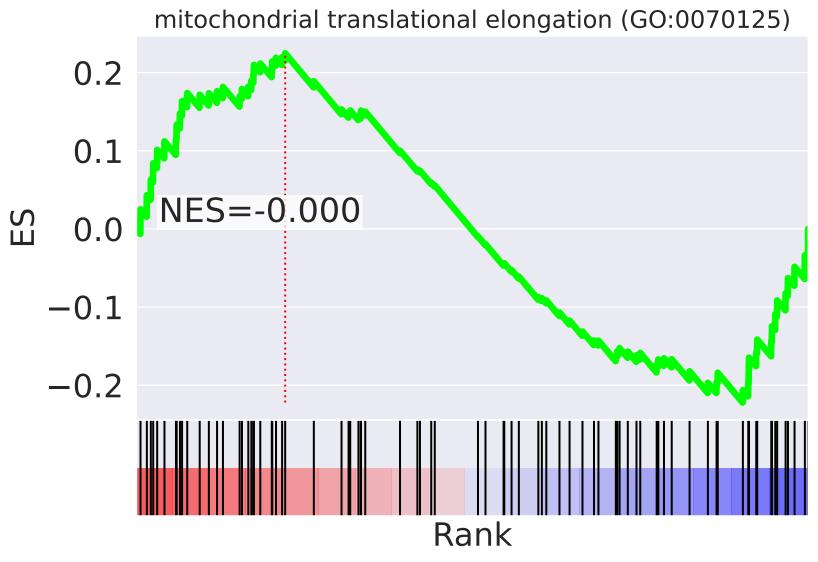
NES	SET
3.876	mitochondrial respiratory chain complex I assembly (GO:0032981)
-3.319	positive regulation of cell proliferation (GO:0008284)
-3.016	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
2.984	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
2.976	mitochondrial translational elongation (GO:0070125)
-2.958	positive regulation of protein catabolic process (GO:0045732)
2.867	mitochondrial translational termination (GO:0070126)
-2.850	translational initiation (GO:0006413)
-2.812	rRNA processing (GO:0006364)
2.793	tricarboxylic acid cycle (GO:0006099)
-2.751	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-2.634	protein targeting to membrane (GO:0006612)
-2.542	negative regulation of protein binding (GO:0032091)
-2.521	positive regulation of GTPase activity (GO:0043547)
-2.500	establishment of endothelial intestinal barrier (GO:0090557)



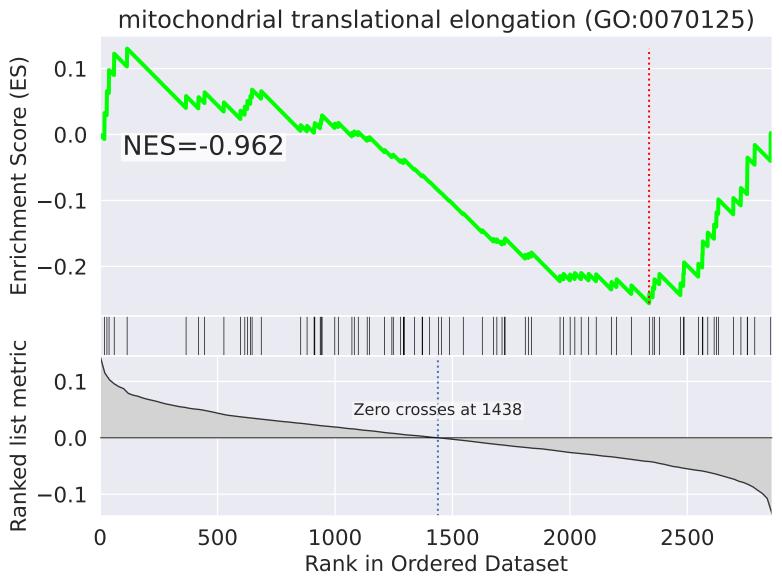


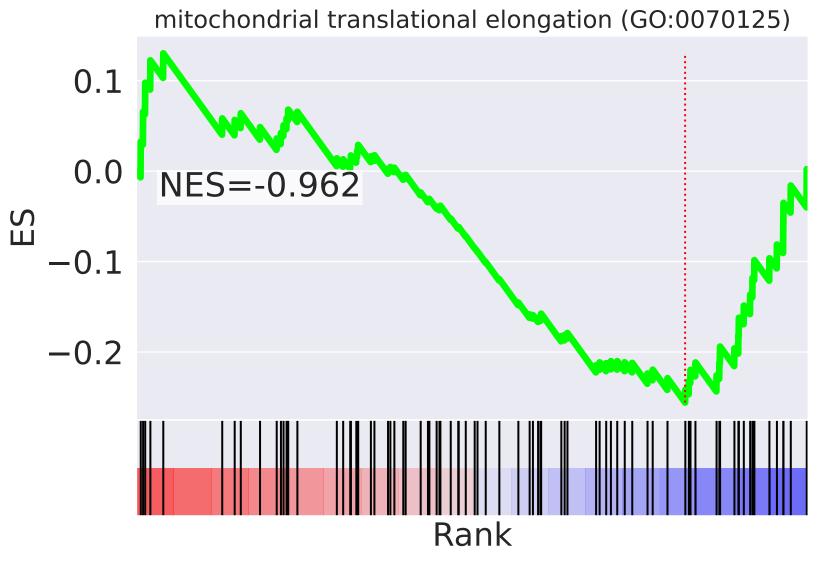
NES	SET
3.827	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
3.230	regulation of mitotic spindle assembly (GO:1901673)
3.127	translational initiation (GO:0006413)
3.099	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
3.060	translation (GO:0006412)
-3.041	membrane organization (GO:0061024)
-2.861	transcription initiation from RNA polymerase II promoter (GO:0006367)
-2.852	cellular response to amino acid starvation (GO:0034198)
-2.829	regulation of cytokinesis (GO:0032465)
-2.801	DNA damage checkpoint (GO:0000077)
-2.771	regulation of signal transduction by p53 class mediator (GO:1901796)
2.750	cellular response to epidermal growth factor stimulus (GO:0071364)
2.730	regulation of cell motility (GO:2000145)
2.656	generation of precursor metabolites and energy (GO:0006091)
2.627	mitochondrial translational termination (GO:0070126)



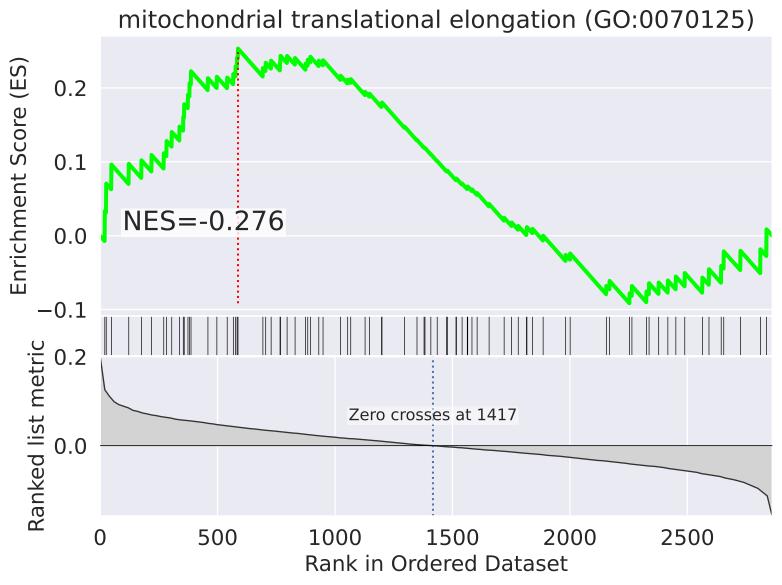


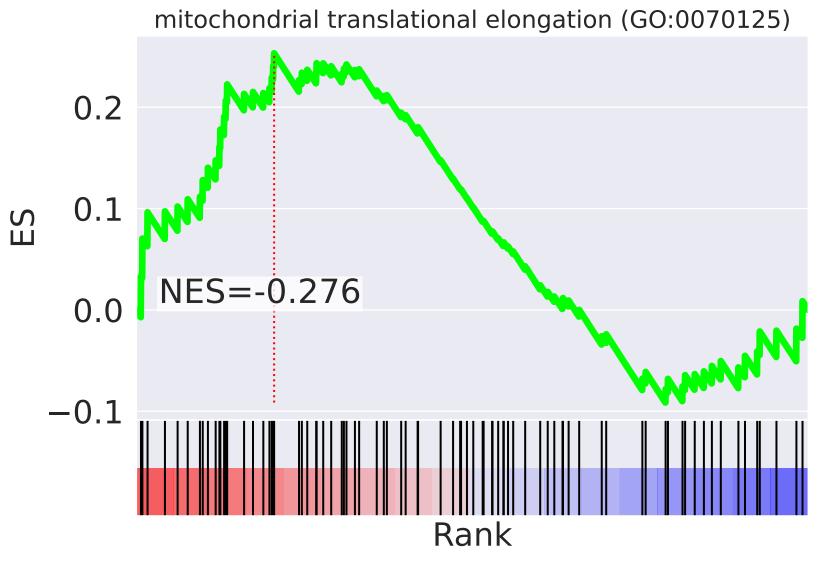
NES	SET
3.819	nervous system development (GO:0007399)
3.328	retrograde transport, endosome to Golgi (GO:0042147)
3.084	transferrin transport (GO:0033572)
2.993	negative regulation of TOR signaling (GO:0032007)
2.980	antigen processing and presentation of exogenous peptide antigen via MHC class II (GO:0019886)
2.946	tricarboxylic acid cycle (GO:0006099)
2.933	phagosome acidification (GO:0090383)
2.929	regulation of defense response to virus by virus (GO:0050690)
2.781	clathrin-dependent endocytosis (GO:0072583)
2.760	low-density lipoprotein particle receptor catabolic process (GO:0032802)
-2.754	negative regulation of protein ubiquitination (GO:0031397)
-2.748	positive regulation of protein kinase activity (GO:0045860)
2.663	regulation of endocytosis (GO:0030100)
-2.642	spliceosomal snRNP assembly (GO:0000387)
2.617	low-density lipoprotein particle clearance (GO:0034383)



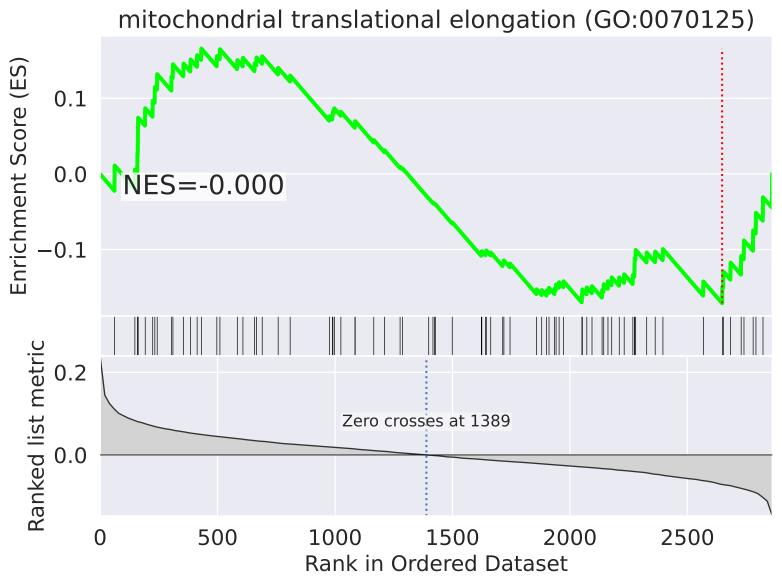


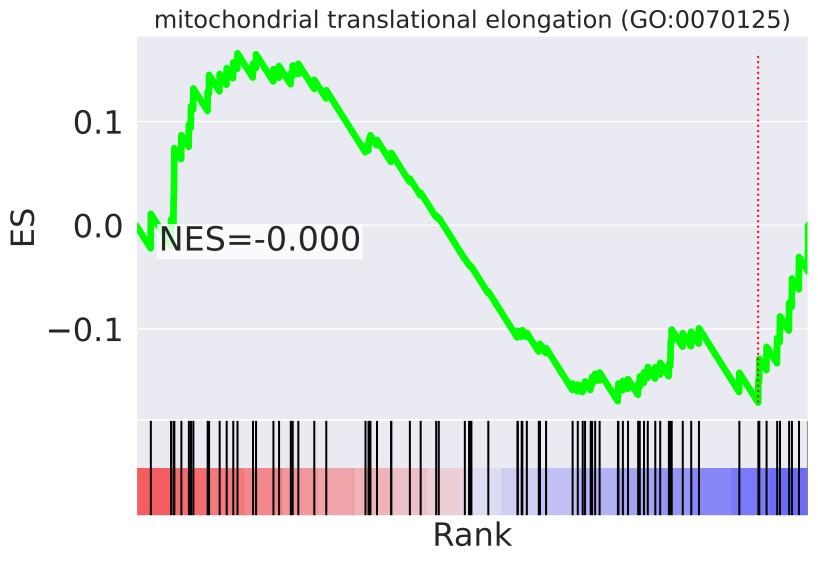
NES	SET
-2.802	protein ubiquitination (GO:0016567)
2.783	mitochondrial respiratory chain complex I assembly (GO:0032981)
2.760	regulation of gene expression (GO:0010468)
-2.688	T cell costimulation (GO:0031295)
2.551	xenobiotic metabolic process (GO:0006805)
-2.458	stress fiber assembly (GO:0043149)
-2.453	protein destabilization (GO:0031648)
2.447	mRNA processing (GO:0006397)
2.406	positive regulation of G2/M transition of mitotic cell cycle (GO:0010971)
-2.387	histone monoubiquitination (GO:0010390)
2.373	regulation of focal adhesion assembly (GO:0051893)
-2.370	maturation of LSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) (GO:0000463)
2.338	positive regulation of cell cycle (GO:0045787)
2.334	protein transport (GO:0015031)
-2.322	intrinsic apoptotic signaling pathway (GO:0097193)



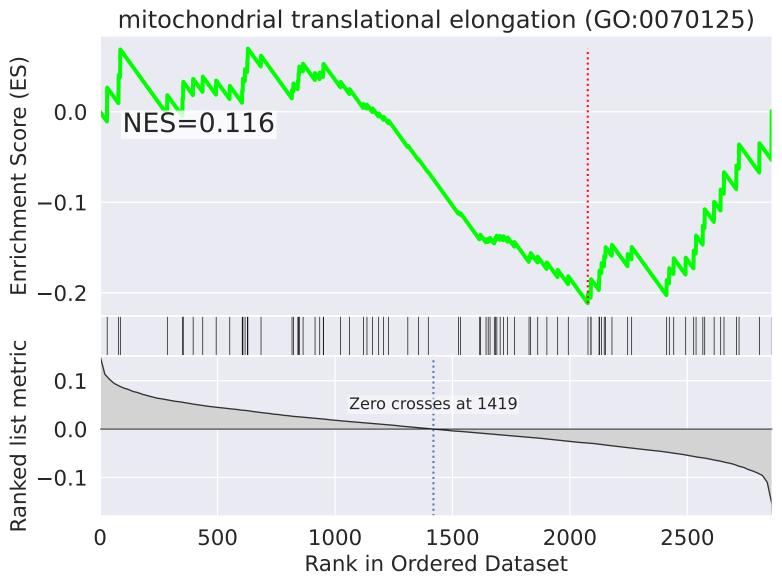


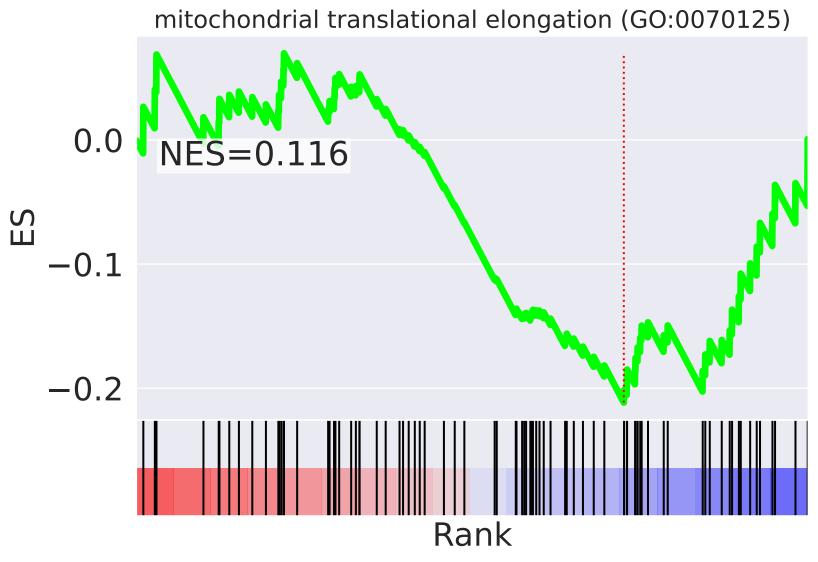
NES	SET
-4.978	mitochondrial respiratory chain complex I assembly (GO:0032981)
-4.579	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
4.352	translational initiation (GO:0006413)
4.297	rRNA processing (GO:0006364)
3.927	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
3.473	negative regulation of protein kinase B signaling (GO:0051898)
3.299	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-2.913	protein targeting to mitochondrion (GO:0006626)
2.844	ribosomal large subunit biogenesis (GO:0042273)
2.782	positive regulation of rRNA processing (GO:2000234)
2.725	regulation of cyclin-dependent protein serine/threonine kinase activity (GO:0000079)
2.670	maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) (GO:0000462)
-2.664	autophagosome assembly (GO:0000045)
-2.546	mitophagy (GO:0000422)
2.520	telomere maintenance via telomerase (GO:0007004)



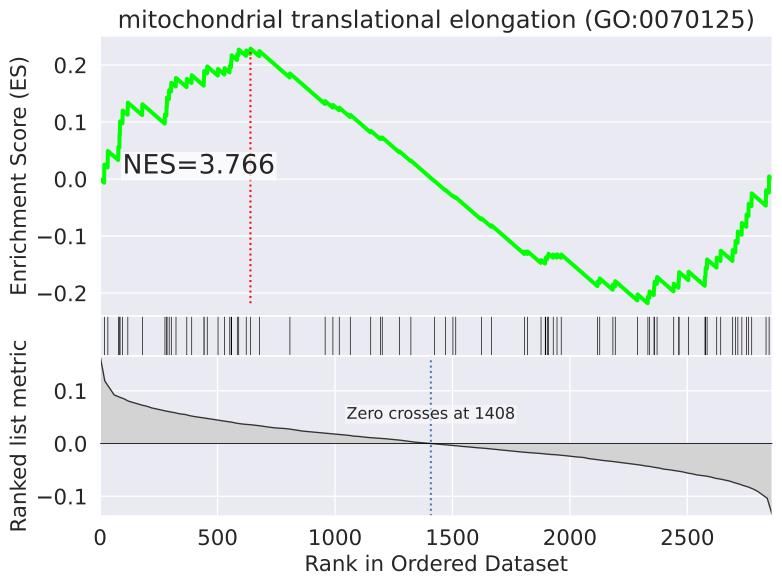


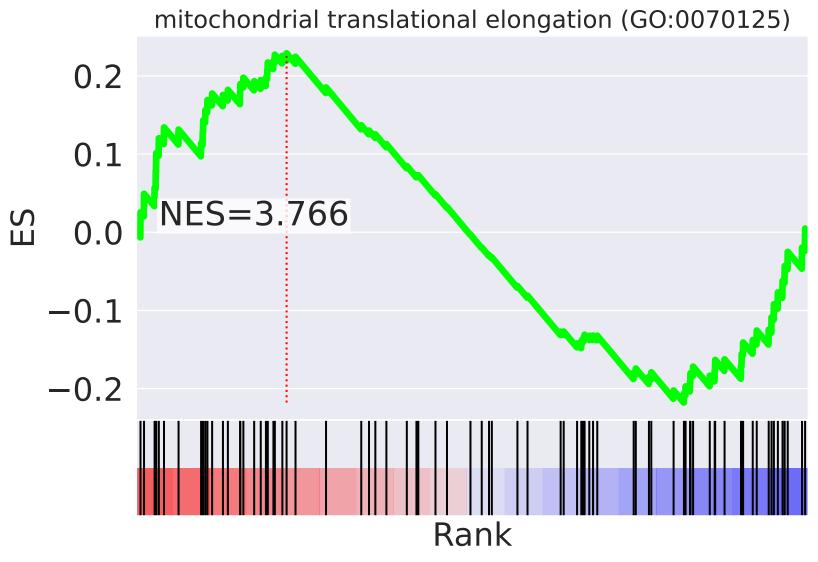
NES	SET
-3.039	epidermal growth factor receptor signaling pathway (GO:0007173)
-3.031	centrosome duplication (GO:0051298)
3.000	ion transmembrane transport (GO:0034220)
2.920	interstrand cross-link repair (GO:0036297)
2.843	retrograde protein transport, ER to cytosol (GO:0030970)
2.836	tricarboxylic acid cycle (GO:0006099)
-2.820	cell-matrix adhesion (GO:0007160)
2.756	protein phosphorylation (GO:0006468)
2.727	transferrin transport (GO:0033572)
2.719	humoral immune response (GO:0006959)
-2.713	microtubule-based movement (GO:0007018)
-2.712	protein deneddylation (GO:0000338)
-2.653	chromosome segregation (GO:0007059)
2.638	cellular nitrogen compound metabolic process (GO:0034641)
-2.618	positive regulation of substrate adhesion-dependent cell spreading (GO:1900026)





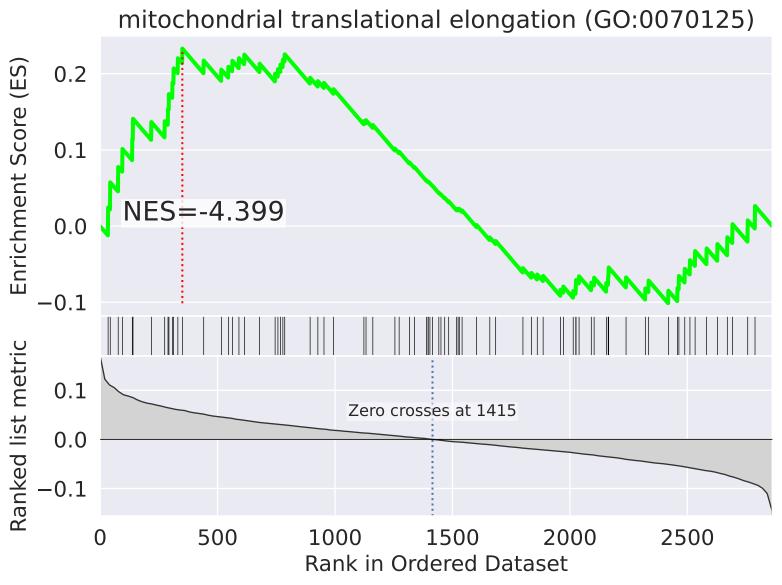
NES	SET
-3.439	sister chromatid cohesion (GO:0007062)
-3.297	strand displacement (GO:0000732)
-3.195	double-strand break repair via nonhomologous end joining (GO:0006303)
-2.950	DNA replication (GO:0006260)
-2.901	DNA synthesis involved in DNA repair (GO:0000731)
-2.803	beta-catenin-TCF complex assembly (GO:1904837)
2.753	positive regulation of protein serine/threonine kinase activity (GO:0071902)
2.722	maturation of SSU-rRNA (GO:0030490)
-2.668	regulation of apoptotic process (GO:0042981)
-2.649	phosphatidylinositol biosynthetic process (GO:0006661)
-2.536	histone mRNA catabolic process (GO:0071044)
2.308	endocytosis (GO:0006897)
2.304	endocytic recycling (GO:0032456)
2.300	heart development (GO:0007507)
2.281	heme biosynthetic process (GO:0006783)

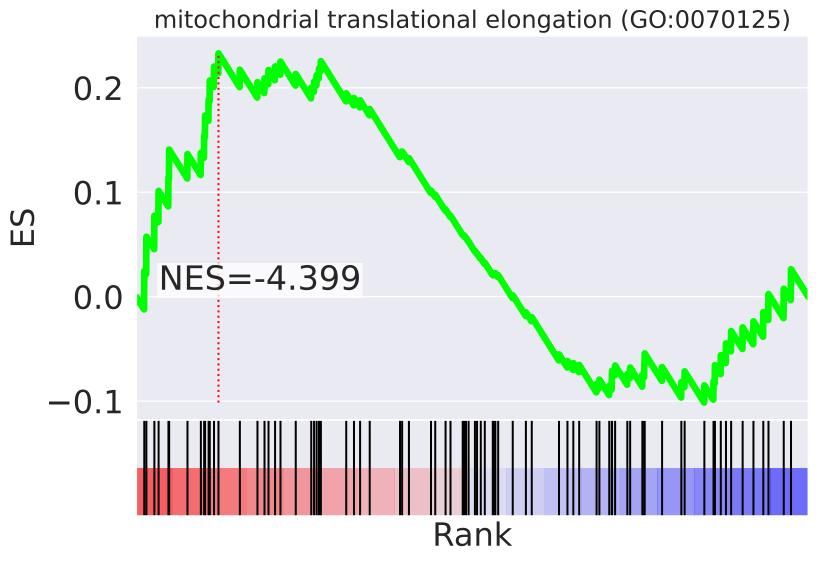




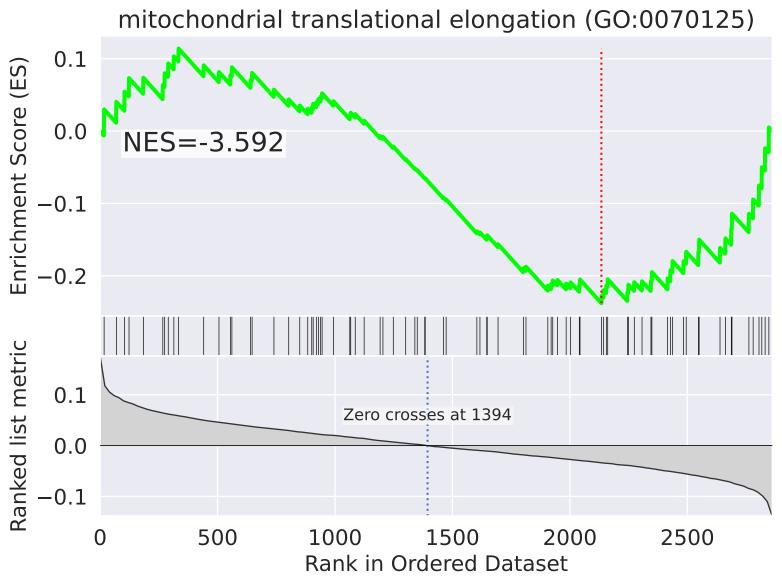
NES	SET
5.182	mitochondrial respiratory chain complex I assembly (GO:0032981)
4.283	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.814	mitochondrial translational termination (GO:0070126)
3.766	mitochondrial translational elongation (GO:0070125)
-3.344	G2/M transition of mitotic cell cycle (GO:0000086)
-3.276	chromosome segregation (GO:0007059)
-3.063	response to endoplasmic reticulum stress (GO:0034976)
-2.824	spliceosomal snRNP assembly (GO:0000387)
2.817	mitochondrial translation (GO:0032543)
-2.743	ventricular septum morphogenesis (GO:0060412)
-2.730	positive regulation of translation (GO:0045727)
-2.643	tRNA 5'-leader removal (GO:0001682)
-2.610	snRNA processing (GO:0016180)
-2.481	protein import into peroxisome matrix (GO:0016558)
-2.455	positive regulation of osteoblast differentiation (GO:0045669)

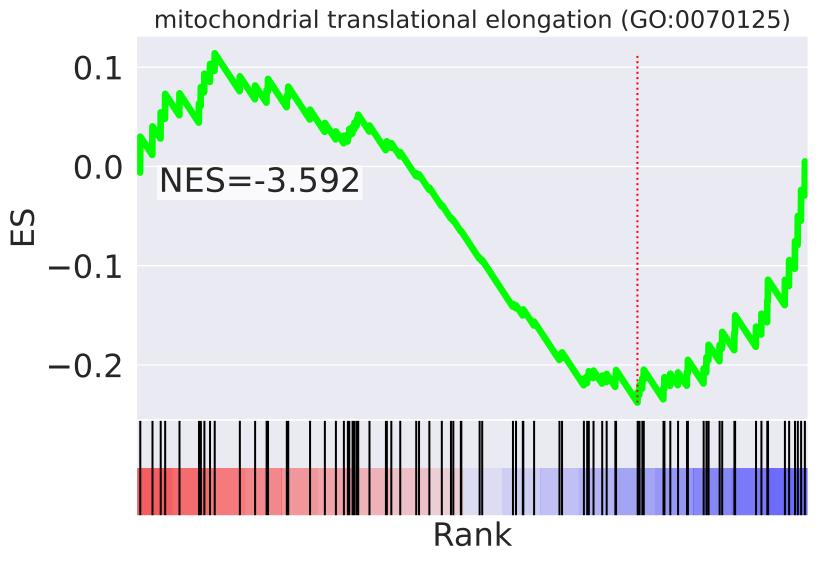
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=3.





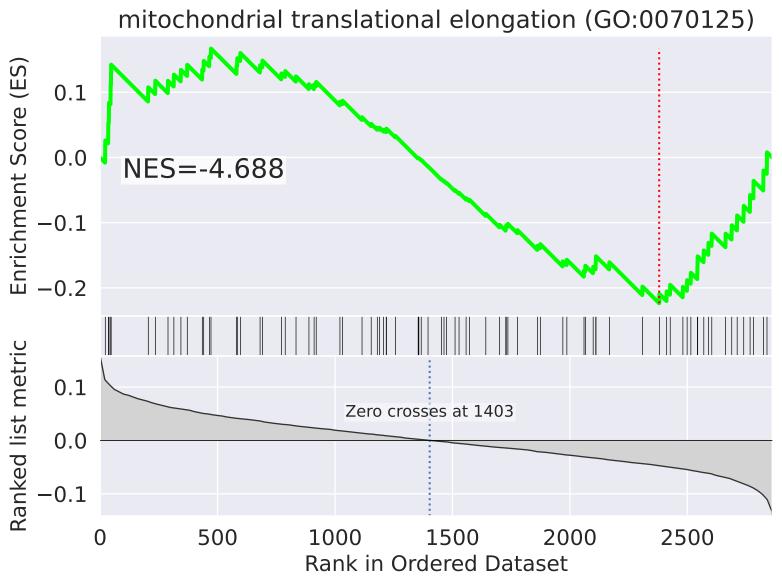
NES	SET
-4.399	mitochondrial translational elongation (GO:0070125)
-4.341	mitochondrial translational termination (GO:0070126)
-4.061	mitochondrial respiratory chain complex I assembly (GO:0032981)
-3.049	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
-2.641	mitochondrial translation (GO:0032543)
-2.628	regulation of cholesterol biosynthetic process (GO:0045540)
2.602	positive regulation of transcription elongation from RNA polymerase II promoter (GO:0032968)
2.554	mitotic cytokinesis (GO:0000281)
-2.540	cholesterol biosynthetic process (GO:0006695)
-2.471	nucleobase-containing compound metabolic process (GO:0006139)
-2.453	positive regulation of protein catabolic process (GO:0045732)
2.387	regulation of circadian rhythm (GO:0042752)
2.384	positive regulation of gene expression, epigenetic (GO:0045815)
-2.379	exocytosis (GO:0006887)
2.357	transcription elongation from RNA polymerase II promoter (GO:0006368)

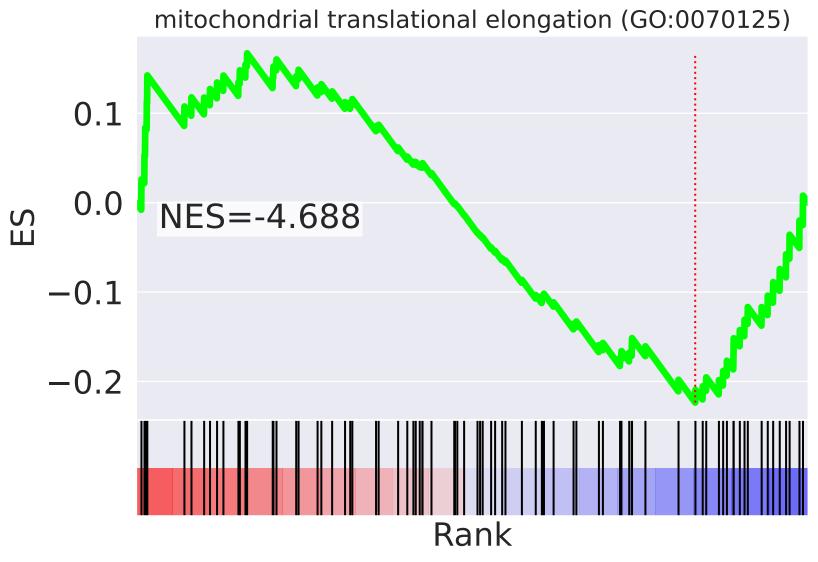




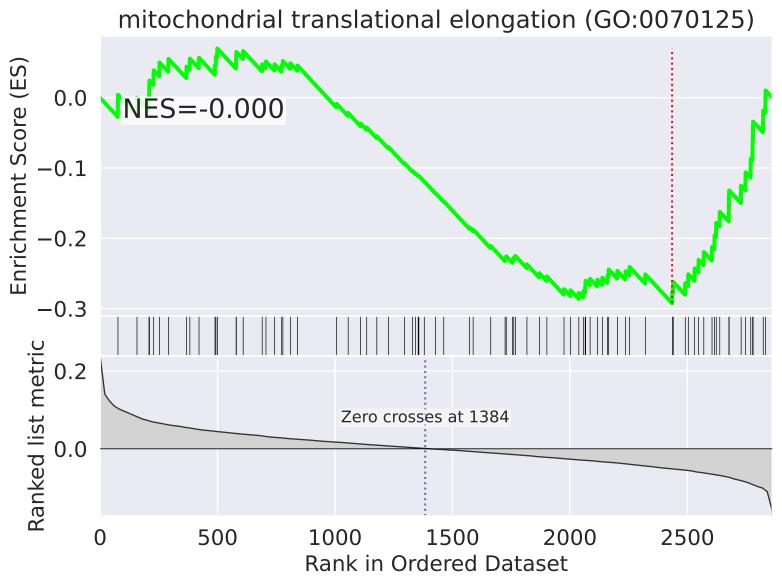
NES	SET
-3.611	mitochondrial translational termination (GO:0070126)
-3.592	mitochondrial translational elongation (GO:0070125)
-3.357	mitotic nuclear envelope disassembly (GO:0007077)
2.888	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
2.857	mitochondrial respiratory chain complex I assembly (GO:0032981)
-2.762	G2/M transition of mitotic cell cycle (GO:0000086)
-2.677	intracellular transport of virus (GO:0075733)
-2.673	tRNA export from nucleus (GO:0006409)
-2.649	protein sumoylation (GO:0016925)
-2.638	sister chromatid cohesion (GO:0007062)
-2.599	viral process (GO:0016032)
-2.565	mitochondrial translation (GO:0032543)
-2.563	regulation of cell migration (GO:0030334)
-2.547	CENP-A containing nucleosome assembly (GO:0034080)
-2.538	regulation of glucose transport (GO:0010827)

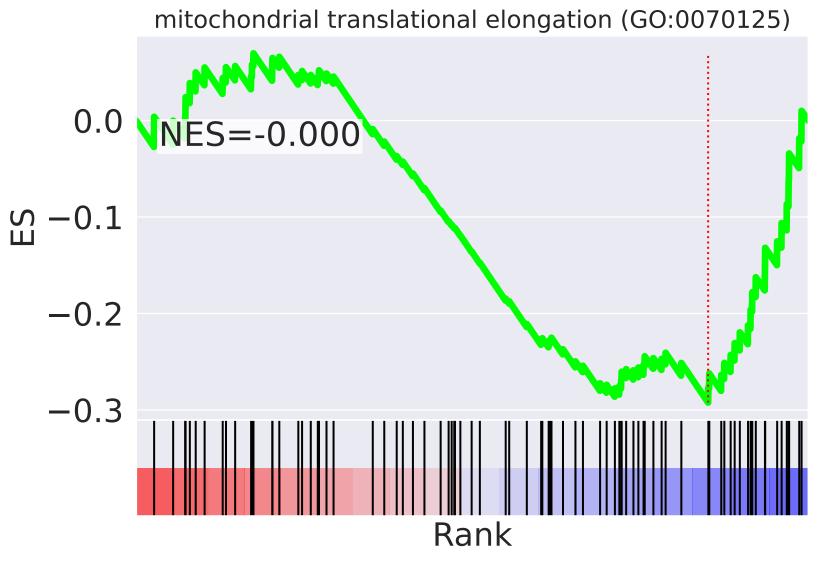
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=33



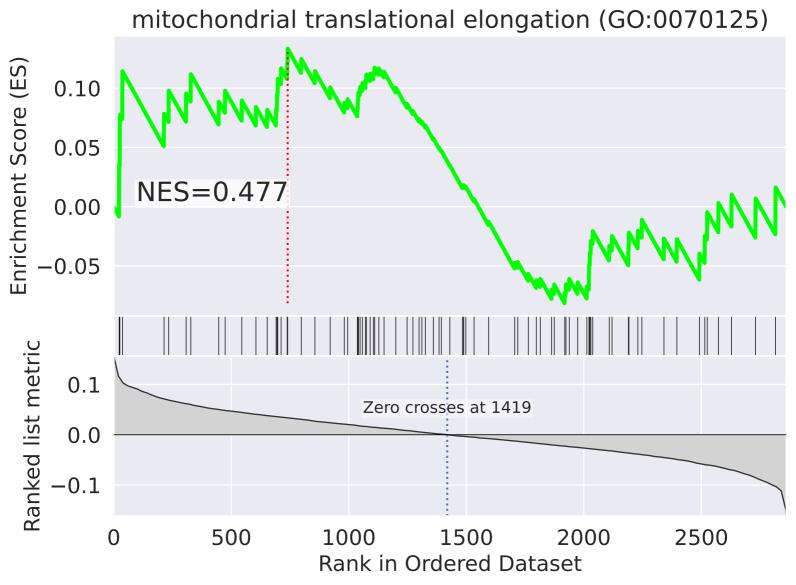


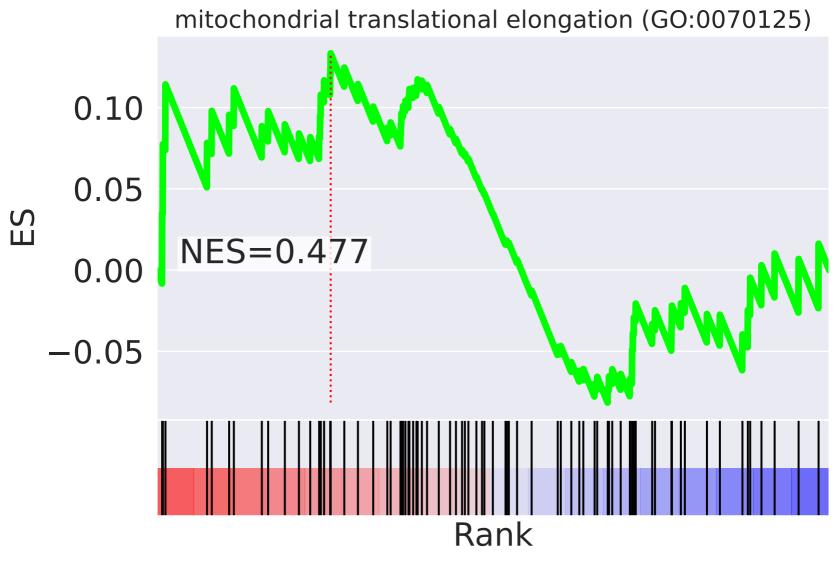
NES	SET
-4.688	mitochondrial translational elongation (GO:0070125)
-4.516	mitochondrial translational termination (GO:0070126)
3.260	phosphatidylinositol-mediated signaling (GO:0048015)
3.189	chromatin remodeling (GO:0006338)
3.110	Wnt signaling pathway, planar cell polarity pathway (GO:0060071)
-2.958	transcription from RNA polymerase III promoter (GO:0006383)
-2.915	mitochondrial translation (GO:0032543)
2.885	viral transcription (GO:0019083)
2.851	clathrin-dependent endocytosis (GO:0072583)
2.823	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
2.810	positive regulation of transcription elongation from RNA polymerase II promoter (GO:0032968)
2.736	regulation of mitotic cell cycle (GO:0007346)
2.734	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)
2.719	translational initiation (GO:0006413)
2.687	regulation of protein stability (GO:0031647)





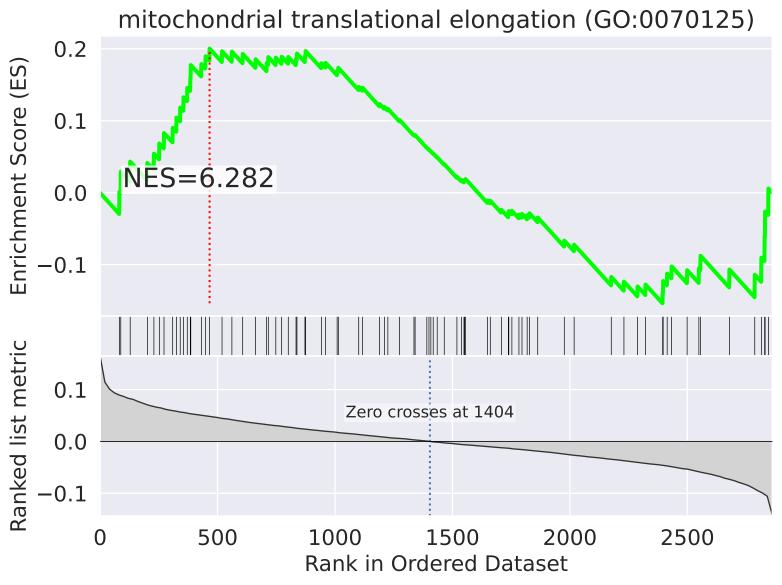
NES	SET
3.134	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
3.106	tricarboxylic acid cycle (GO:0006099)
3.064	purine ribonucleoside monophosphate biosynthetic process (GO:0009168)
2.943	nervous system development (GO:0007399)
-2.943	transcription from RNA polymerase III promoter (GO:0006383)
-2.825	macroautophagy (GO:0016236)
2.770	cellular response to oxidative stress (GO:0034599)
2.741	humoral immune response (GO:0006959)
2.679	ubiquitin-dependent ERAD pathway (GO:0030433)
-2.677	RNA metabolic process (GO:0016070)
-2.645	protein N-linked glycosylation (GO:0006487)
-2.609	autophagosome assembly (GO:0000045)
-2.597	dolichol-linked oligosaccharide biosynthetic process (GO:0006488)
-2.552	chromosome segregation (GO:0007059)
2.538	cellular nitrogen compound metabolic process (GO:0034641)

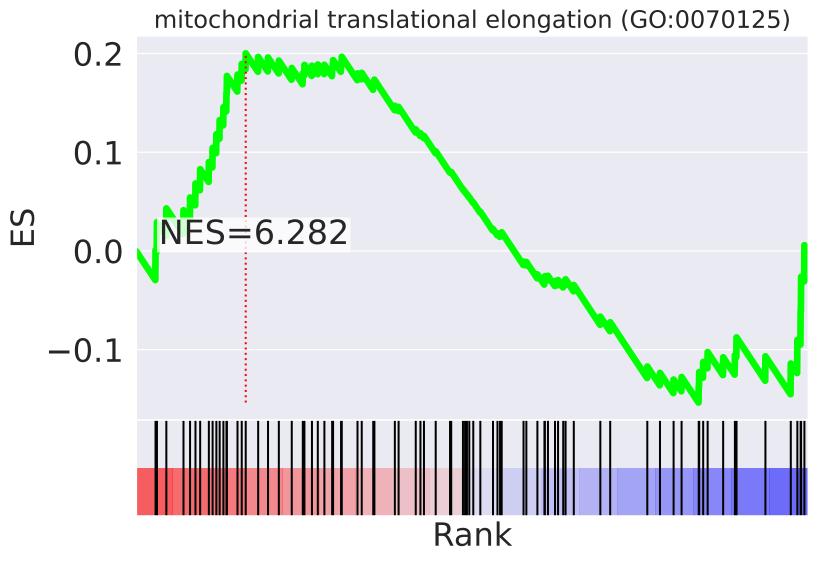




NES	SET
-3.246	retrograde vesicle-mediated transport, Golgi to ER (GO:0006890)
2.913	regulation of cell motility (GO:2000145)
2.753	anoikis (GO:0043276)
2.725	bicellular tight junction assembly (GO:0070830)
-2.699	macroautophagy (GO:0016236)
-2.482	protein dephosphorylation (GO:0006470)
2.374	neural tube closure (GO:0001843)
-2.351	nuclear mRNA surveillance (GO:0071028)
-2.331	positive regulation of protein catabolic process (GO:0045732)
2.315	mRNA 3'-end processing (GO:0031124)
2.305	heart development (GO:0007507)
2.240	amino acid transport (GO:0006865)
2.219	viral mRNA export from host cell nucleus (GO:0046784)
2.217	anaphase-promoting complex-dependent catabolic process (GO:0031145)
2.163	erythrocyte differentiation (GO:0030218)

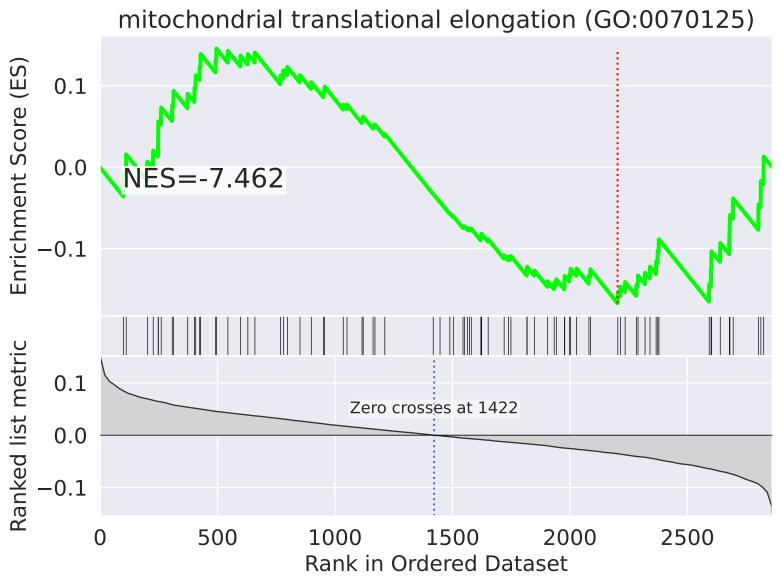
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=3	36

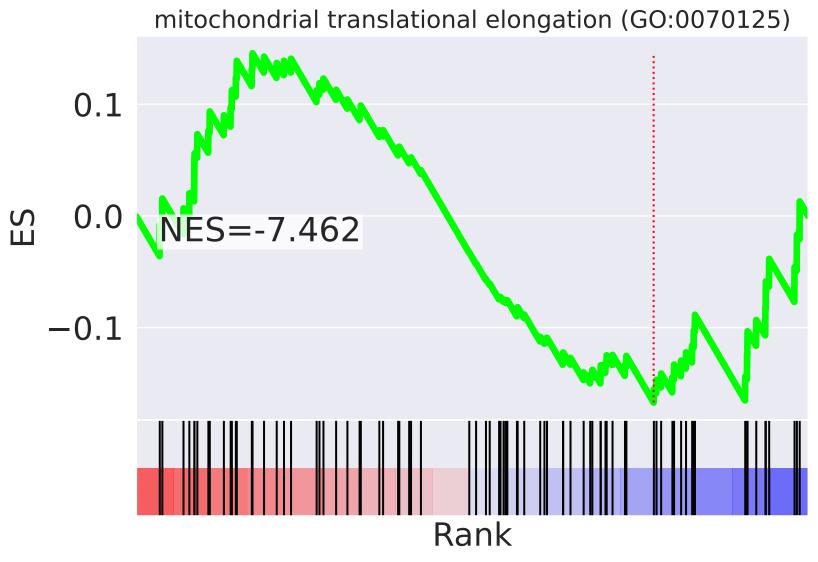




NES	SET
6.282	mitochondrial translational elongation (GO:0070125)
6.260	mitochondrial translational termination (GO:0070126)
4.988	mitochondrial respiratory chain complex I assembly (GO:0032981)
4.023	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.297	mitochondrial translation (GO:0032543)
3.265	aerobic respiration (GO:0009060)
-3.252	Fc-gamma receptor signaling pathway involved in phagocytosis (GO:0038096)
3.228	tricarboxylic acid cycle (GO:0006099)
-2.949	response to endoplasmic reticulum stress (GO:0034976)
-2.923	positive regulation of protein catabolic process (GO:0045732)
-2.879	transcription initiation from RNA polymerase II promoter (GO:0006367)
-2.842	Fc-epsilon receptor signaling pathway (GO:0038095)
-2.836	post-translational protein modification (GO:0043687)
-2.812	regulation of signal transduction by p53 class mediator (GO:1901796)
-2.780	activation of protein kinase activity (GO:0032147)

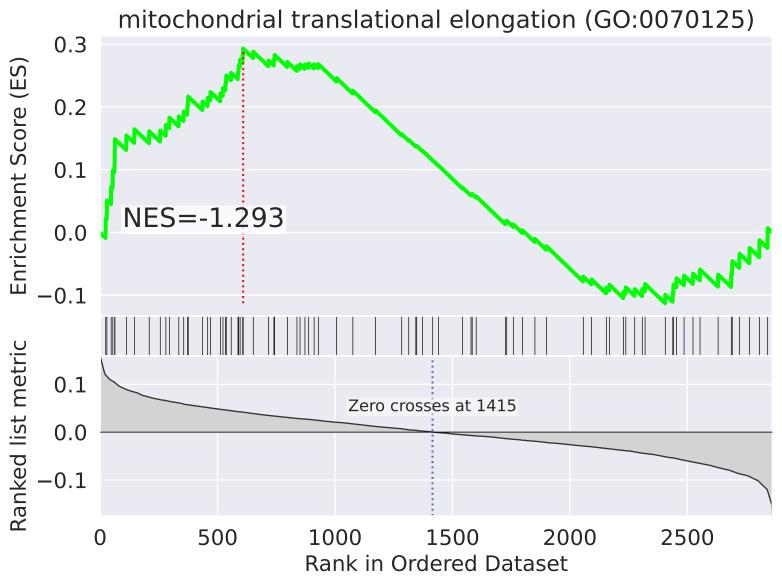
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=37

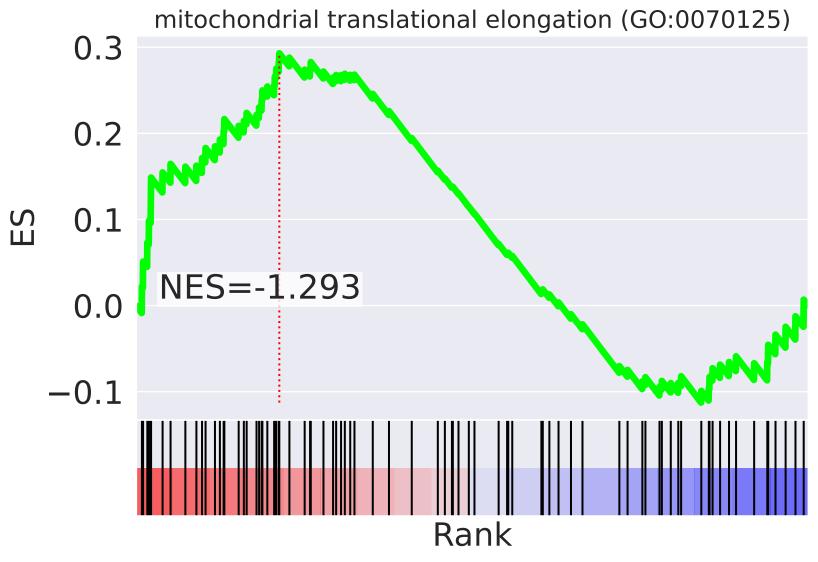




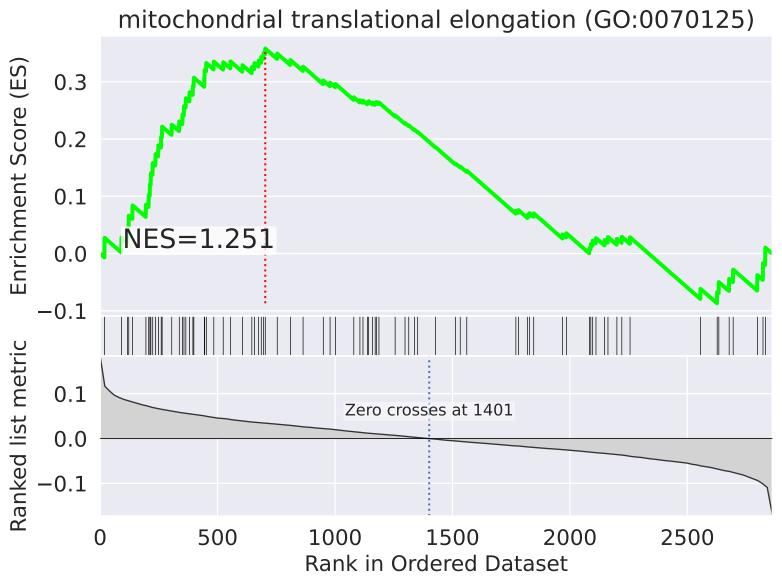
NES	SET
-7.469	mitochondrial translational termination (GO:0070126)
-7.462	mitochondrial translational elongation (GO:0070125)
-4.990	mitochondrial respiratory chain complex I assembly (GO:0032981)
-4.535	mitochondrial translation (GO:0032543)
-4.021	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.625	positive regulation of I-kappaB kinase/NF-kappaB signaling (GO:0043123)
3.606	post-translational protein modification (GO:0043687)
-3.470	translation (GO:0006412)
3.333	membrane organization (GO:0061024)
2.916	DNA replication (GO:0006260)
2.865	positive regulation of neuron differentiation (GO:0045666)
2.825	ESCRT III complex disassembly (GO:1904903)
2.750	hippo signaling (GO:0035329)
2.679	interstrand cross-link repair (GO:0036297)
-2.663	BMP signaling pathway (GO:0030509)

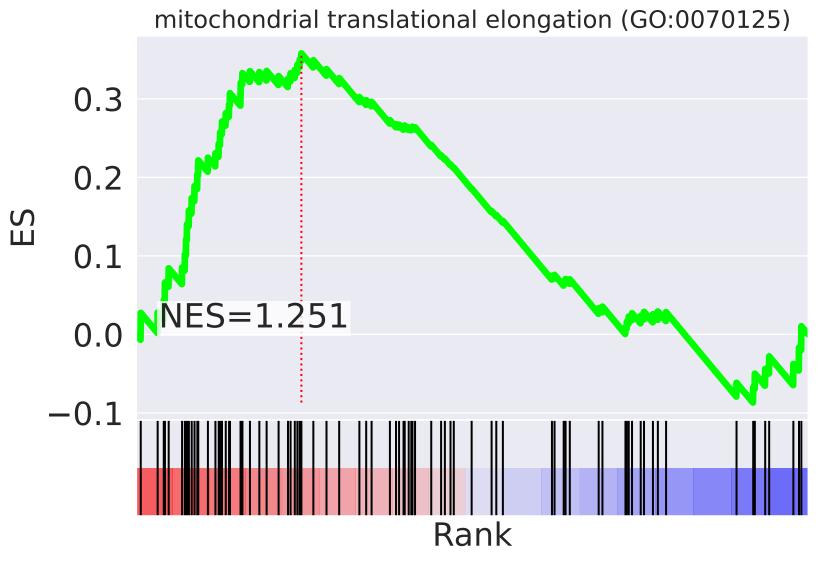
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=38



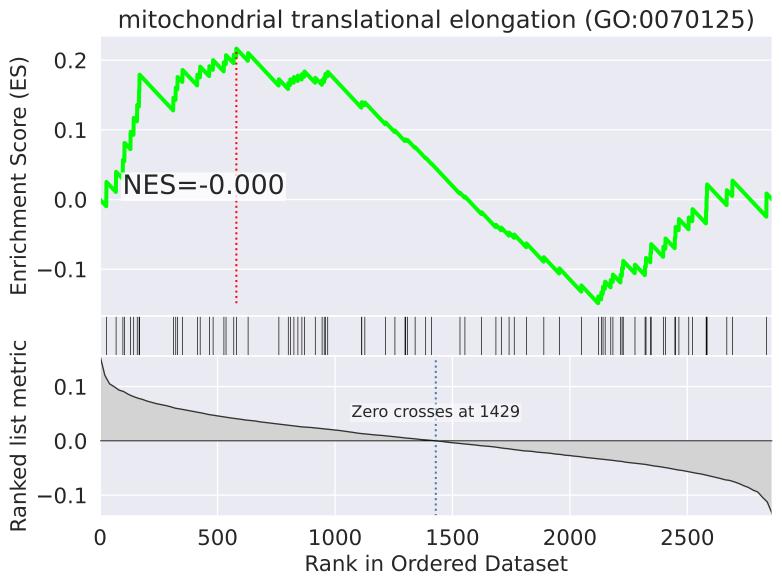


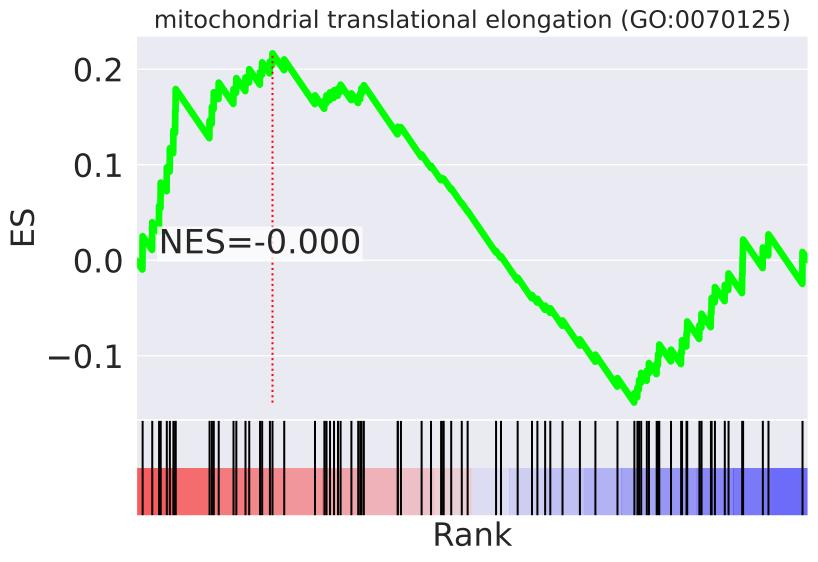
NES	SET
3.995	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process (GO:0031146)
3.934	T cell receptor signaling pathway (GO:0050852)
3.906	MAPK cascade (GO:0000165)
3.892	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
3.867	NIK/NF-kappaB signaling (GO:0038061)
3.786	Fc-epsilon receptor signaling pathway (GO:0038095)
3.741	tumor necrosis factor-mediated signaling pathway (GO:0033209)
3.741	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
3.673	regulation of cellular amino acid metabolic process (GO:0006521)
3.619	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)
3.617	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)
3.528	centrosome cycle (GO:0007098)
3.491	protein polyubiquitination (GO:0000209)
3.450	transmembrane transport (GO:0055085)
3.277	positive regulation of canonical Wnt signaling pathway (GO:0090263)





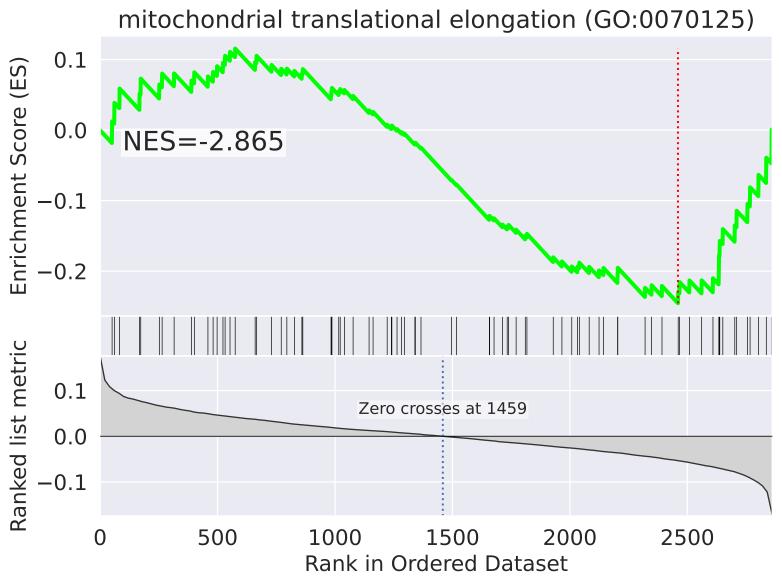
NES	SET
4.851	mitochondrial respiratory chain complex I assembly (GO:0032981)
-3.859	regulation of cellular response to heat (GO:1900034)
-3.821	intracellular transport of virus (GO:0075733)
3.749	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
-3.682	mitotic nuclear envelope disassembly (GO:0007077)
-3.123	antigen processing and presentation of exogenous peptide antigen via MHC class II (GO:0019886)
-3.110	regulation of glucose transport (GO:0010827)
-3.104	tRNA export from nucleus (GO:0006409)
-3.091	mRNA export from nucleus (GO:0006406)
3.010	negative regulation of cell proliferation (GO:0008285)
-3.006	viral process (GO:0016032)
-2.893	G2/M transition of mitotic cell cycle (GO:0000086)
-2.848	protein sumoylation (GO:0016925)
2.780	negative regulation of intrinsic apoptotic signaling pathway (GO:2001243)
-2.778	nucleotide-excision repair, DNA damage recognition (GO:0000715)

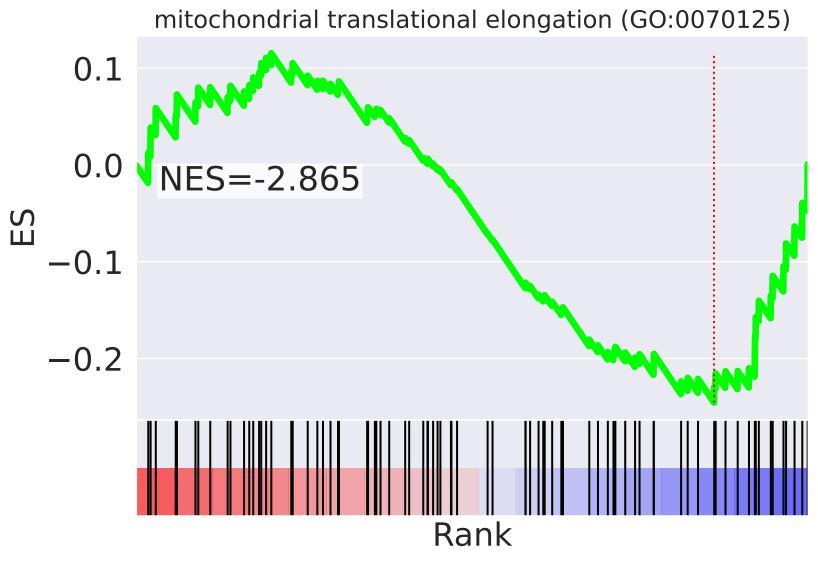




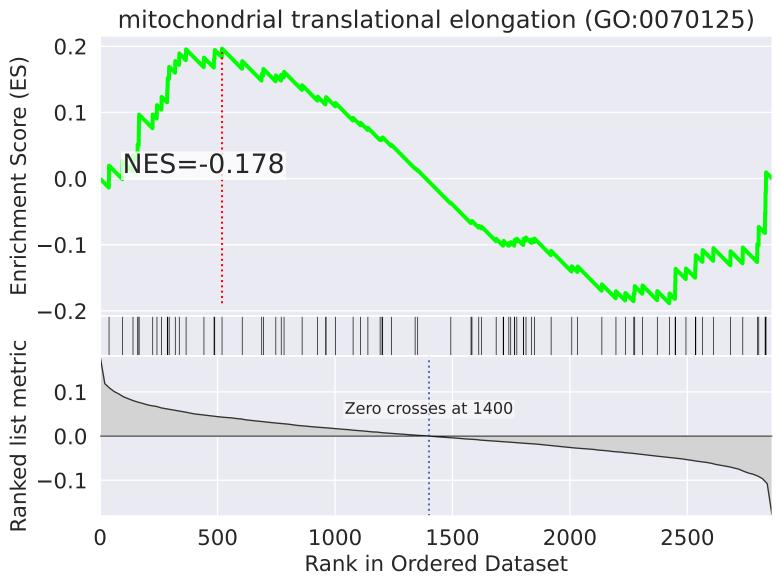
NES	SET
4.015	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
-3.020	negative regulation of protein kinase activity (GO:0006469)
3.007	translational initiation (GO:0006413)
2.945	RNA export from nucleus (GO:0006405)
2.834	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-2.715	nervous system development (GO:0007399)
-2.678	glucose homeostasis (GO:0042593)
-2.637	cell cycle checkpoint (GO:0000075)
-2.631	kidney development (GO:0001822)
-2.613	mitotic DNA replication checkpoint (GO:0033314)
-2.600	negative regulation of phosphatase activity (GO:0010923)
-2.593	membrane fusion (GO:0061025)
-2.573	phosphatidylinositol-mediated signaling (GO:0048015)
-2.463	iron-sulfur cluster assembly (GO:0016226)
-2.460	COPII vesicle coating (GO:0048208)

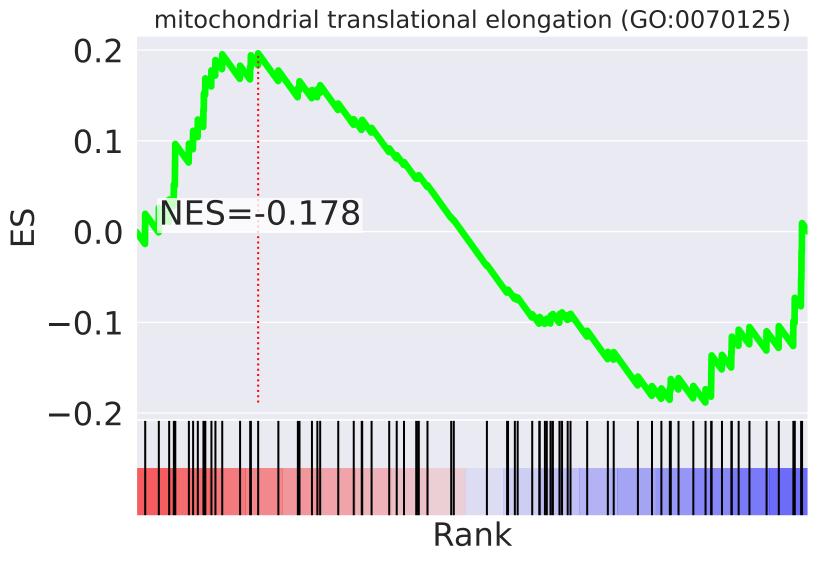
he three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=47



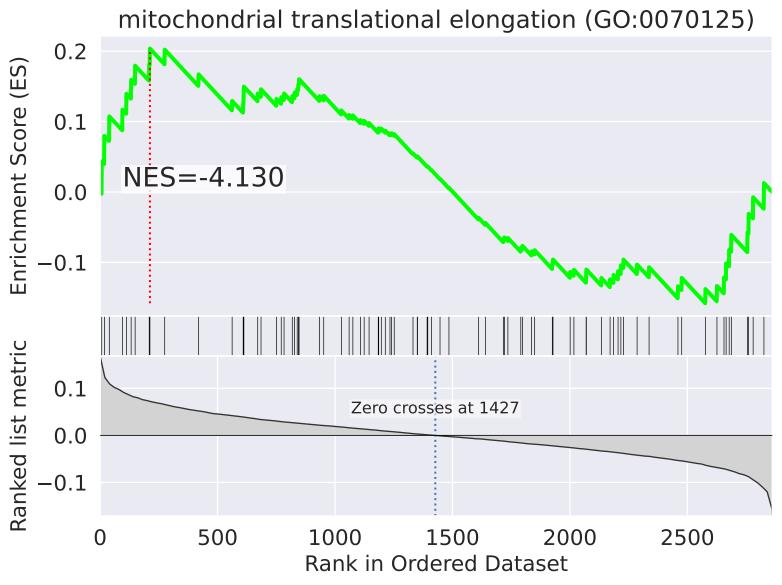


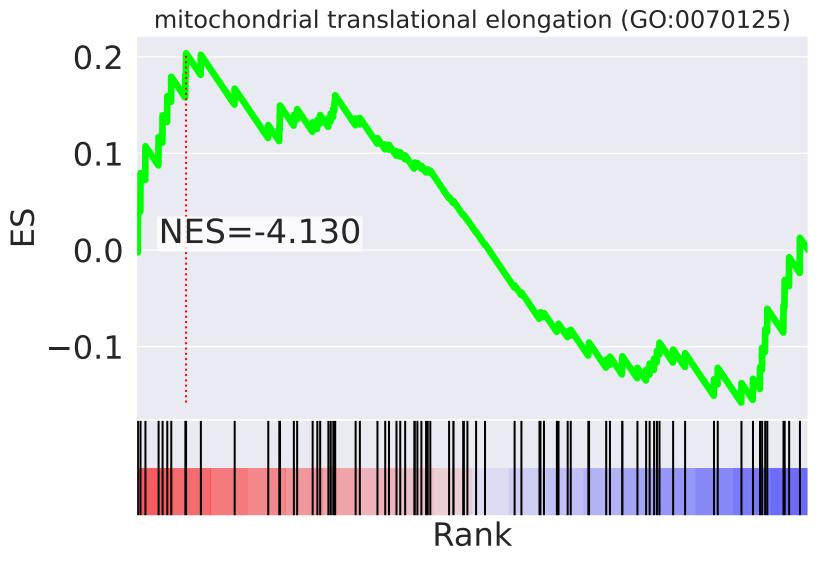
NES	SET
4.202	viral transcription (GO:0019083)
3.937	translational initiation (GO:0006413)
-3.657	mitochondrial respiratory chain complex I assembly (GO:0032981)
3.595	sister chromatid cohesion (GO:0007062)
-3.408	tricarboxylic acid cycle (GO:0006099)
3.288	mitotic cell cycle (GO:0000278)
3.223	rRNA processing (GO:0006364)
3.184	retrograde vesicle-mediated transport, Golgi to ER (GO:0006890)
3.164	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-3.094	mitochondrial translation (GO:0032543)
3.080	dolichol-linked oligosaccharide biosynthetic process (GO:0006488)
-3.045	regulation of cholesterol biosynthetic process (GO:0045540)
2.996	cytoplasmic microtubule organization (GO:0031122)
2.867	nucleosome disassembly (GO:0006337)
-2.865	mitochondrial translational elongation (GO:0070125)



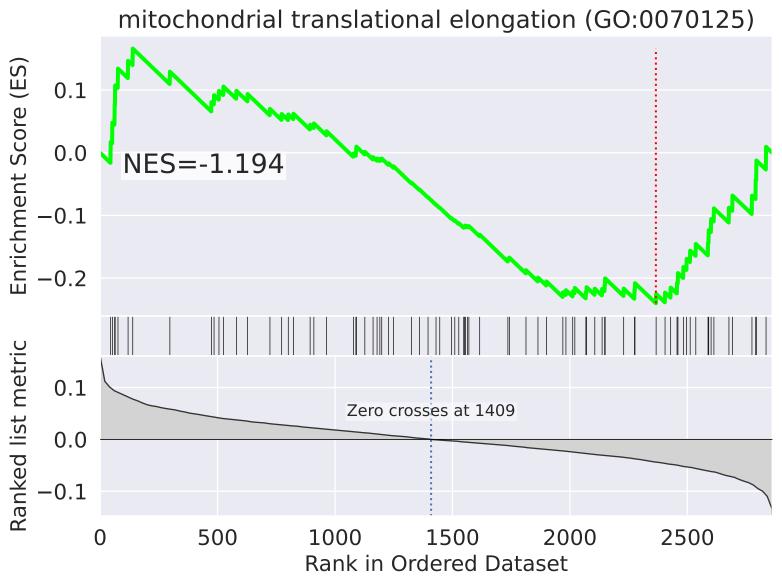


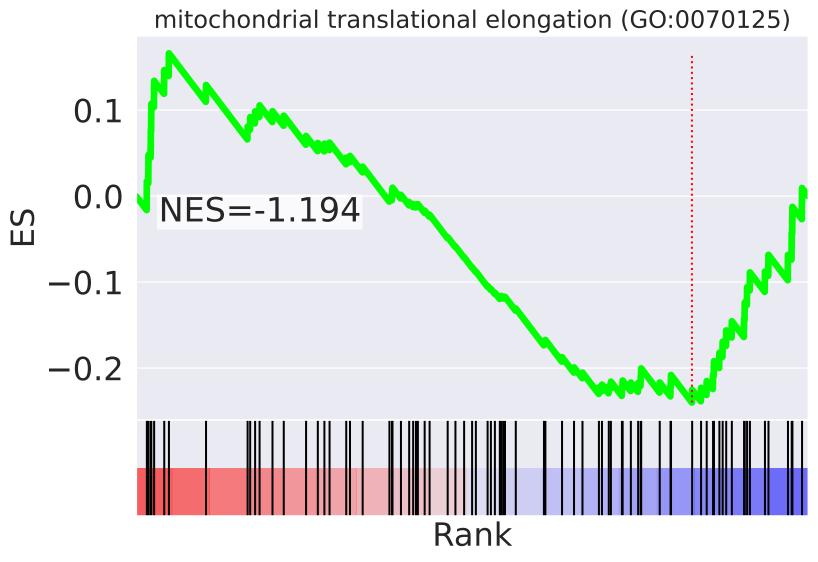
NES	SET
4.373	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
4.339	translational initiation (GO:0006413)
4.221	rRNA processing (GO:0006364)
4.071	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
3.799	viral transcription (GO:0019083)
3.491	translation (GO:0006412)
-2.986	intrinsic apoptotic signaling pathway in response to DNA damage by p53 class mediator (GO:0042771)
-2.927	protein phosphorylation (GO:0006468)
-2.862	T cell costimulation (GO:0031295)
2.772	regulation of transcription from RNA polymerase II promoter in response to hypoxia (GO:0061418)
-2.746	intra-Golgi vesicle-mediated transport (GO:0006891)
-2.722	regulation of protein stability (GO:0031647)
2.721	ribosomal large subunit biogenesis (GO:0042273)
2.696	protein complex assembly (GO:0006461)
-2.686	cell cycle arrest (GO:0007050)



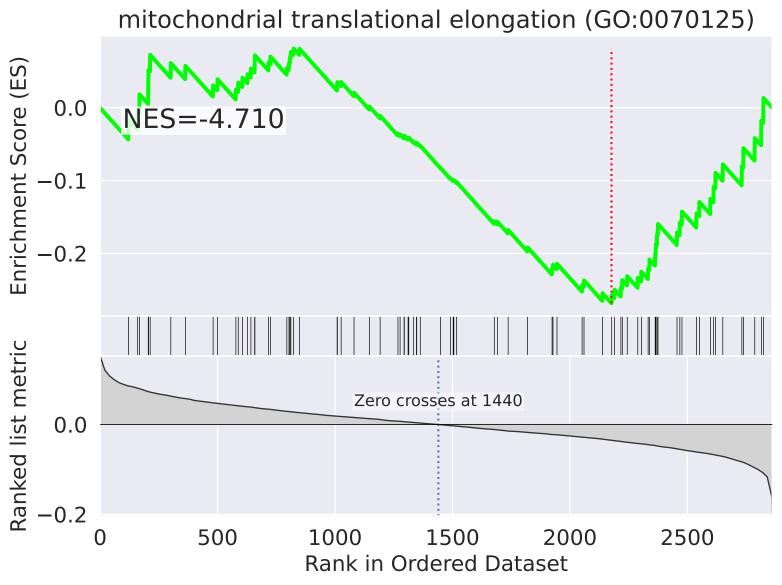


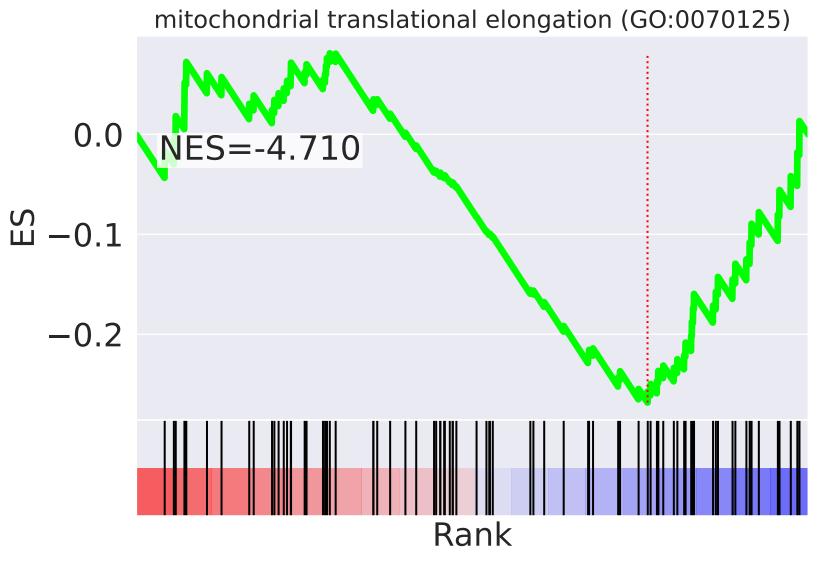
NES	SET
-4.257	mitochondrial respiratory chain complex I assembly (GO:0032981)
-4.130	mitochondrial translational elongation (GO:0070125)
4.062	viral transcription (GO:0019083)
3.988	translational initiation (GO:0006413)
-3.829	mitochondrial translational termination (GO:0070126)
3.808	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
3.681	rRNA processing (GO:0006364)
3.589	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
3.566	platelet activation (GO:0030168)
3.506	vascular endothelial growth factor receptor signaling pathway (GO:0048010)
3.375	transcription elongation from RNA polymerase II promoter (GO:0006368)
-3.326	macroautophagy (GO:0016236)
-3.251	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.225	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
3.139	Fc-epsilon receptor signaling pathway (GO:0038095)





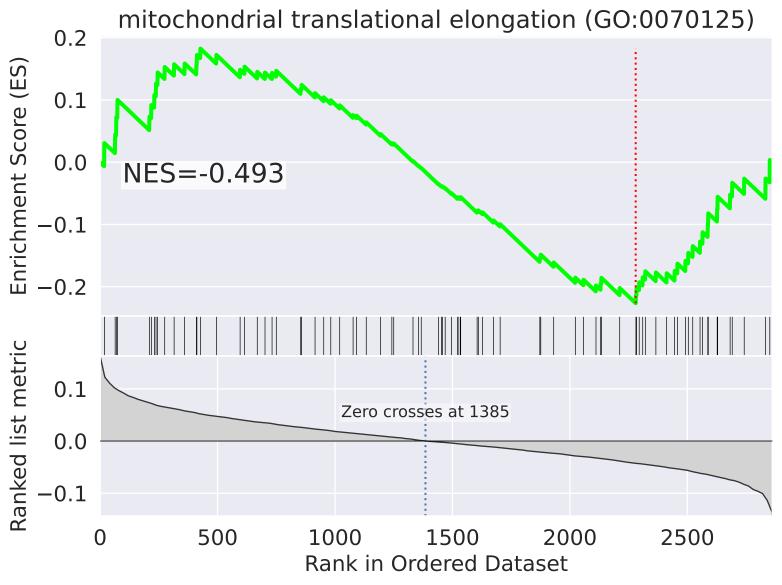
NES	SET
4.619	protein polyubiquitination (GO:0000209)
3.710	intracellular transport of virus (GO:0075733)
3.667	proteasome-mediated ubiquitin-dependent protein catabolic process (GO:0043161)
3.525	viral process (GO:0016032)
3.519	anaphase-promoting complex-dependent catabolic process (GO:0031145)
3.400	regulation of gene silencing by miRNA (GO:0060964)
3.397	Fc-epsilon receptor signaling pathway (GO:0038095)
3.356	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
3.320	regulation of glucose transport (GO:0010827)
3.279	positive regulation of ubiquitin-protein ligase activity involved in regulation of mitotic cell cycle transition (GO:0051437)
3.273	negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle (GO:0051436)
3.222	mitotic nuclear envelope disassembly (GO:0007077)
3.113	mRNA export from nucleus (GO:0006406)
3.095	transmembrane transport (GO:0055085)
3.043	regulation of cellular amino acid metabolic process (GO:0006521)

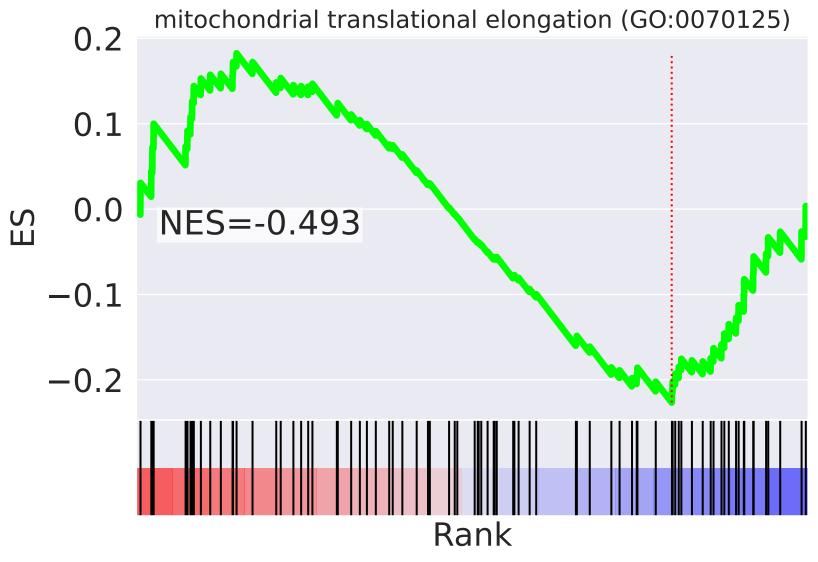




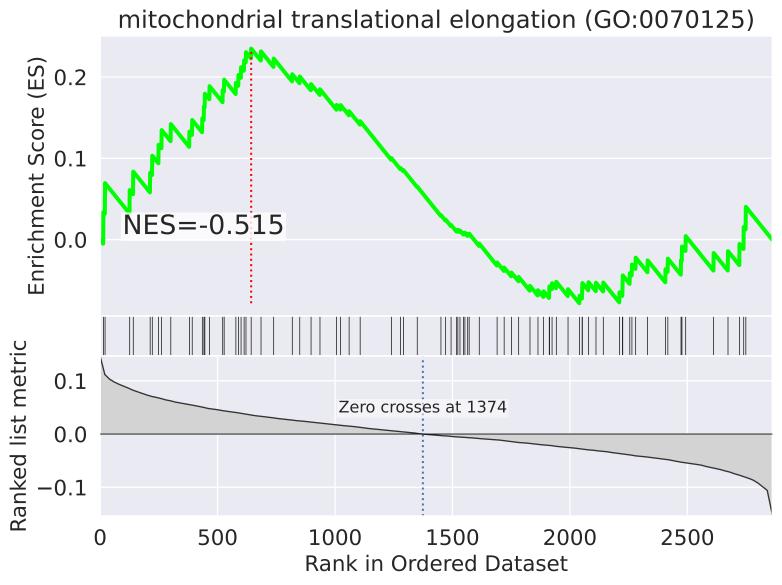
NES	SET
inf	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
inf	viral transcription (GO:0019083)
7.956	translational initiation (GO:0006413)
-7.444	neutrophil degranulation (GO:0043312)
7.232	translation (GO:0006412)
7.066	rRNA processing (GO:0006364)
-7.020	transcription initiation from RNA polymerase II promoter (GO:0006367)
6.712	protein ubiquitination (GO:0016567)
6.319	positive regulation of cell proliferation (GO:0008284)
-6.091	MAPK cascade (GO:0000165)
-5.860	sister chromatid cohesion (GO:0007062)
5.734	negative regulation of transcription from RNA polymerase II promoter (GO:0000122)
-5.627	mRNA splicing, via spliceosome (GO:0000398)
-5.603	regulation of transcription from RNA polymerase II promoter (GO:0006357)
-5.495	ER to Golgi vesicle-mediated transport (GO:0006888)

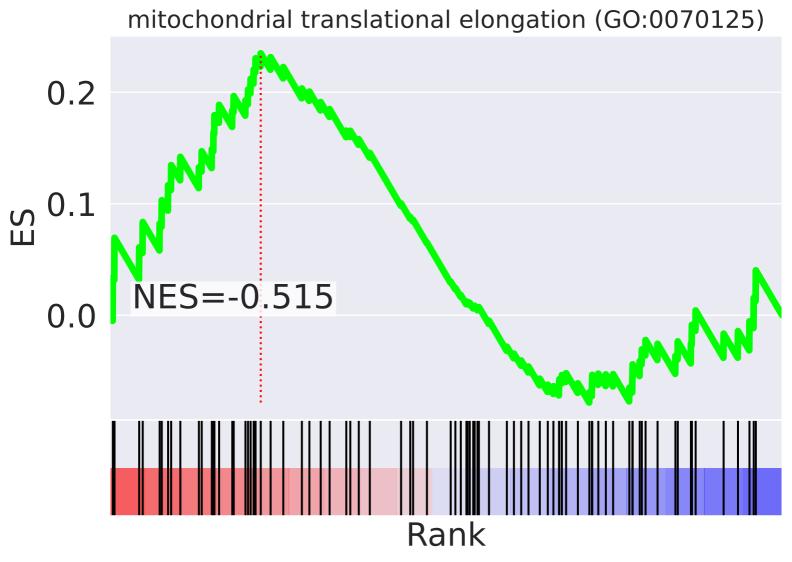
The three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=46



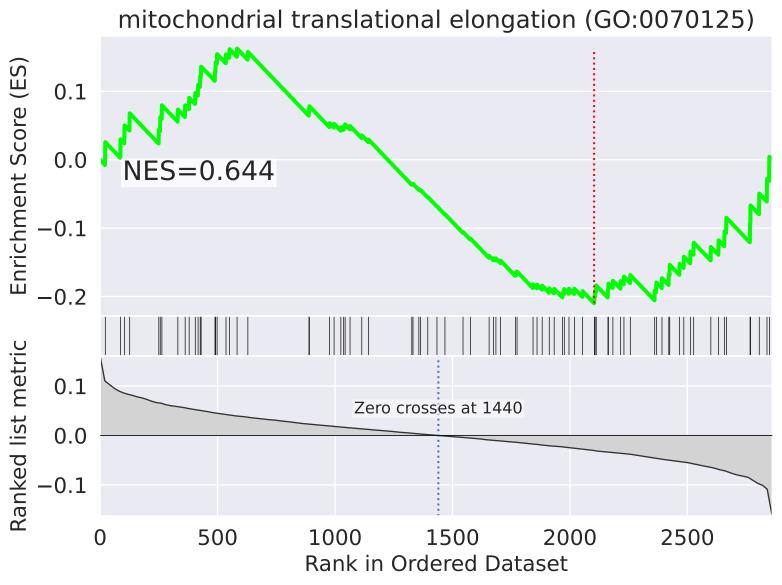


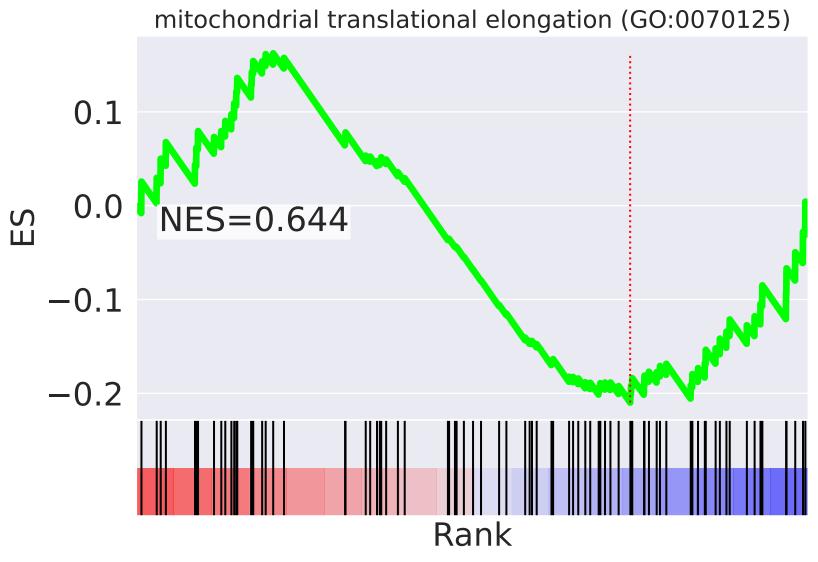
NES	SET
3.054	replication fork processing (GO:0031297)
-2.934	central nervous system development (GO:0007417)
2.931	mitotic cell cycle (GO:0000278)
2.930	interstrand cross-link repair (GO:0036297)
-2.603	epidermal growth factor receptor signaling pathway (GO:0007173)
-2.584	membrane organization (GO:0061024)
2.530	intracellular signal transduction (GO:0035556)
-2.525	ubiquitin-dependent protein catabolic process (GO:0006511)
2.492	mitochondrial respiratory chain complex I assembly (GO:0032981)
-2.450	ephrin receptor signaling pathway (GO:0048013)
-2.436	ERBB2 signaling pathway (GO:0038128)
-2.407	exocytosis (GO:0006887)
-2.342	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
-2.337	positive regulation of protein catabolic process (GO:0045732)
2.321	resolution of meiotic recombination intermediates (GO:0000712)



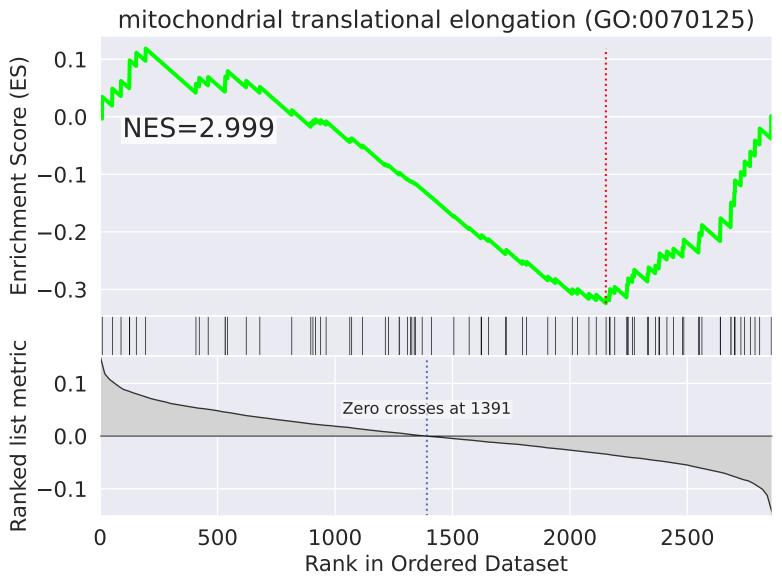


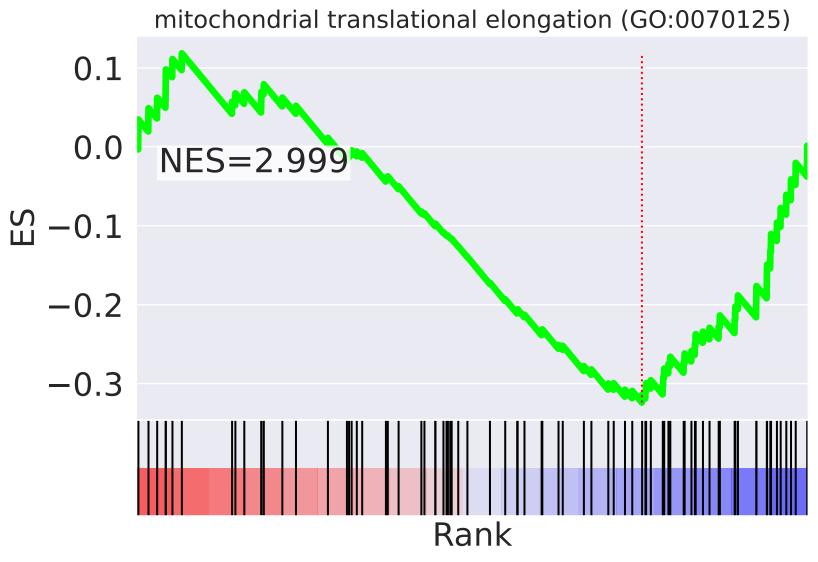
NES	SET
3.402	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
3.151	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-3.079	ER to Golgi vesicle-mediated transport (GO:0006888)
3.006	regulation of small GTPase mediated signal transduction (GO:0051056)
-2.937	membrane organization (GO:0061024)
-2.936	COPII vesicle coating (GO:0048208)
2.931	translational initiation (GO:0006413)
2.888	generation of precursor metabolites and energy (GO:0006091)
-2.727	integrin-mediated signaling pathway (GO:0007229)
2.541	regulation of circadian rhythm (GO:0042752)
-2.528	positive regulation of viral genome replication (GO:0045070)
-2.509	lysosomal transport (GO:0007041)
-2.482	Golgi organization (GO:0007030)
2.481	regulation of cholesterol biosynthetic process (GO:0045540)
2.454	negative regulation of DNA replication (GO:0008156)



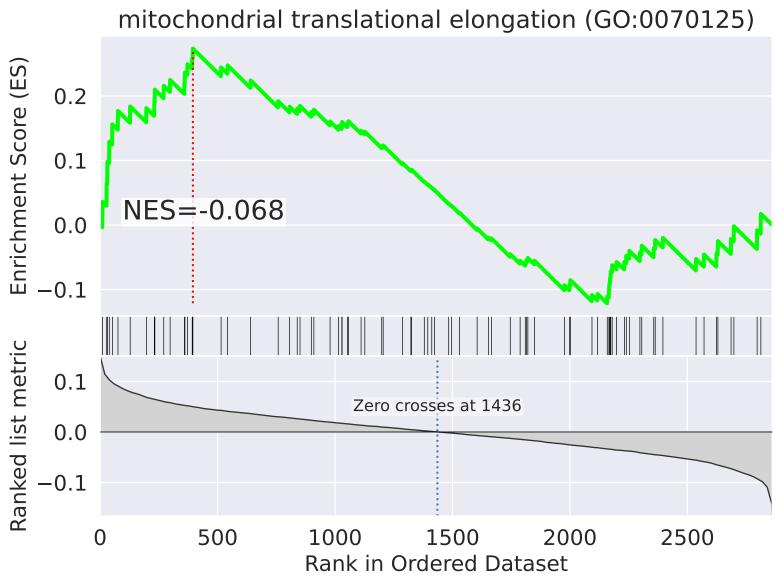


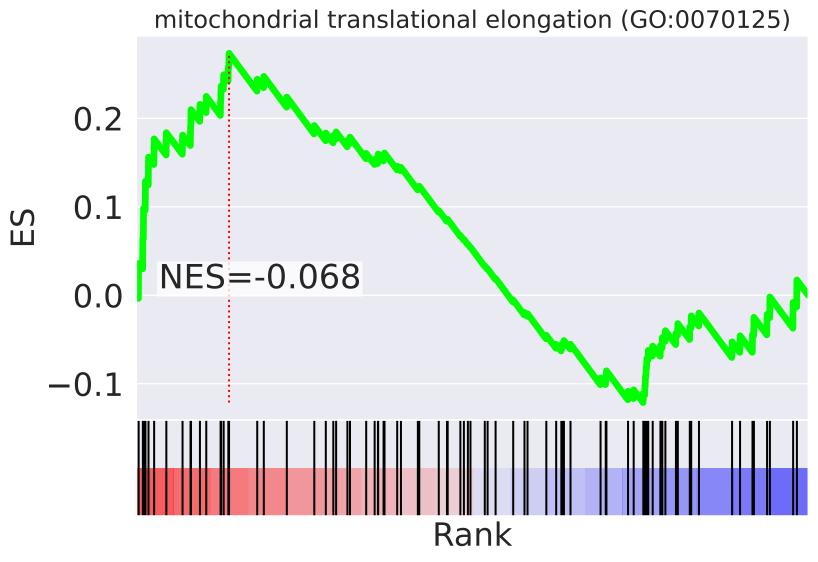
NES	SET
-3.700	membrane organization (GO:0061024)
-3.249	ER to Golgi vesicle-mediated transport (GO:0006888)
3.199	circadian regulation of gene expression (GO:0032922)
-2.935	COPII vesicle coating (GO:0048208)
-2.913	exocytosis (GO:0006887)
2.865	response to unfolded protein (GO:0006986)
2.800	positive regulation of RNA polymerase II transcriptional preinitiation complex assembly (GO:0045899)
-2.618	retrograde transport, endosome to Golgi (GO:0042147)
2.598	positive regulation of gene expression, epigenetic (GO:0045815)
2.589	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
2.577	translational initiation (GO:0006413)
2.570	protein localization to chromatin (GO:0071168)
2.562	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
-2.495	endosome to lysosome transport (GO:0008333)
-2.486	cilium assembly (GO:0060271)





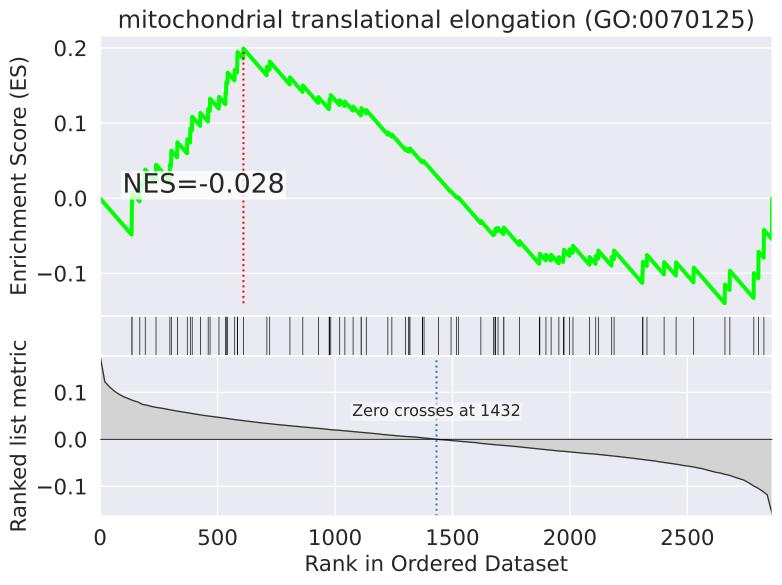
NES	SET
5.187	mitochondrial respiratory chain complex I assembly (GO:0032981)
4.345	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.253	regulation of transcription, DNA-templated (GO:0006355)
3.086	mitochondrial translational termination (GO:0070126)
-3.039	cilium assembly (GO:0060271)
2.999	mitochondrial translational elongation (GO:0070125)
-2.976	transcription from RNA polymerase III promoter (GO:0006383)
2.921	nucleosome disassembly (GO:0006337)
2.882	chromatin remodeling (GO:0006338)
2.826	positive regulation by host of viral transcription (GO:0043923)
-2.730	histone H2A acetylation (GO:0043968)
-2.662	bicellular tight junction assembly (GO:0070830)
2.625	tricarboxylic acid cycle (GO:0006099)
-2.554	cell division (GO:0051301)
2.553	RNA splicing (GO:0008380)

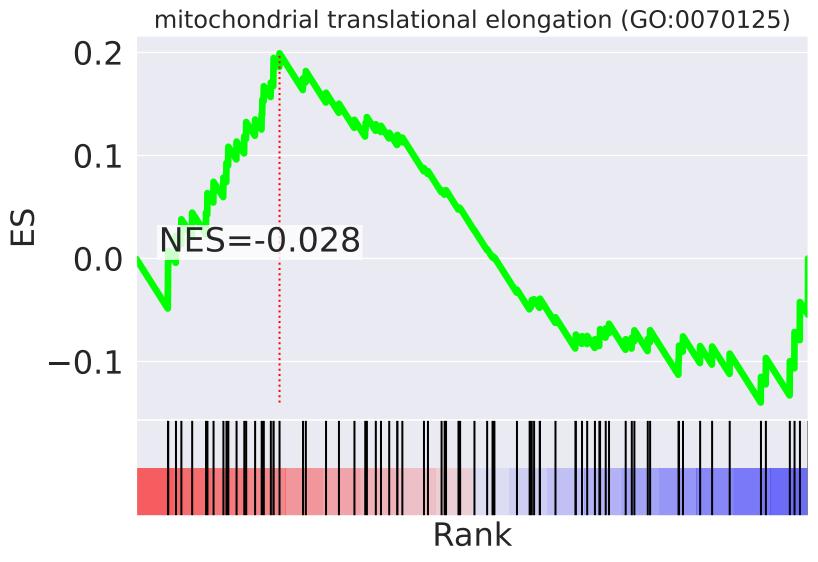




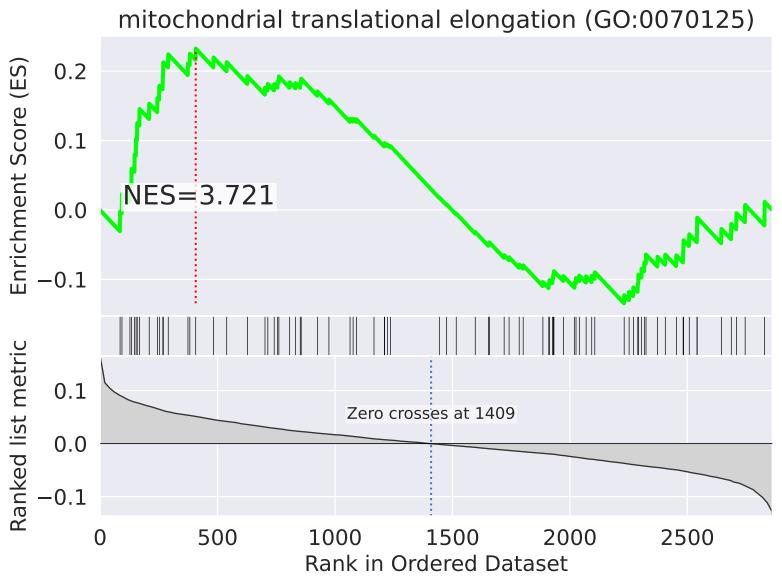
NES	SET
4.359	mRNA export from nucleus (GO:0006406)
4.299	viral process (GO:0016032)
4.193	regulation of cellular response to heat (GO:1900034)
4.177	viral transcription (GO:0019083)
3.939	stimulatory C-type lectin receptor signaling pathway (GO:0002223)
3.929	regulation of glucose transport (GO:0010827)
3.898	protein sumoylation (GO:0016925)
3.839	intracellular transport of virus (GO:0075733)
3.820	tRNA export from nucleus (GO:0006409)
3.818	mitotic nuclear envelope disassembly (GO:0007077)
3.763	negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)
3.725	regulation of gene silencing by miRNA (GO:0060964)
3.670	positive regulation of canonical Wnt signaling pathway (GO:0090263)
3.552	negative regulation of canonical Wnt signaling pathway (GO:0090090)
3.526	antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent (GO:0002479)

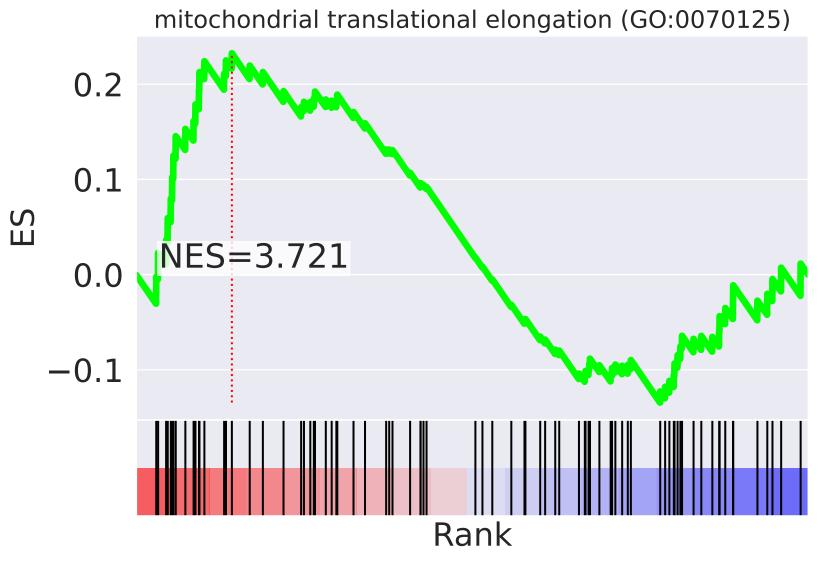
ha throe following figures visualize the pagative central gape set enrichment analysis results for mitochandrial translational elemention (CO:0070125) in the latent dimension 7—5.
he three following figures visualize the negative control gene set enrichment analysis results for mitochondrial translational elongation (GO:0070125) in the latent dimension z=5.



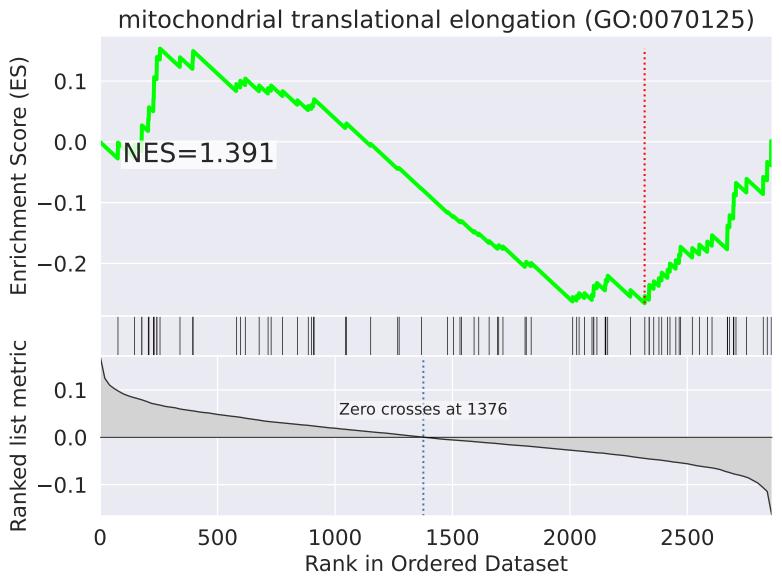


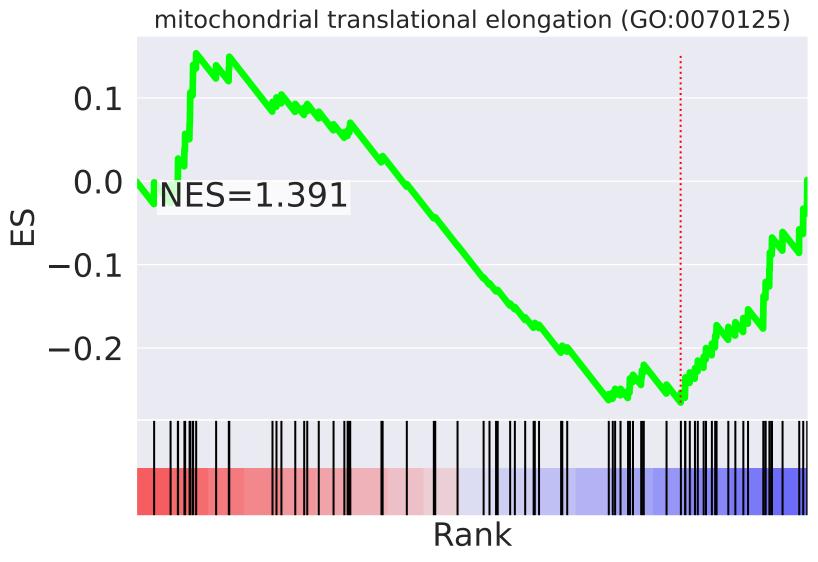
NES	SET
3.018	phosphatidylinositol-mediated signaling (GO:0048015)
2.898	mRNA export from nucleus (GO:0006406)
2.884	cellular response to lipopolysaccharide (GO:0071222)
-2.829	cell-matrix adhesion (GO:0007160)
-2.824	proteasome assembly (GO:0043248)
-2.738	cellular response to indole-3-methanol (GO:0071681)
-2.679	substrate adhesion-dependent cell spreading (GO:0034446)
-2.665	transcription from RNA polymerase III promoter (GO:0006383)
2.606	chromatin remodeling (GO:0006338)
-2.601	tRNA modification (GO:0006400)
2.591	osteoblast differentiation (GO:0001649)
2.580	T cell costimulation (GO:0031295)
2.575	negative regulation of TOR signaling (GO:0032007)
-2.562	double-strand break repair via nonhomologous end joining (GO:0006303)
2.541	ciliary basal body docking (GO:0097711)



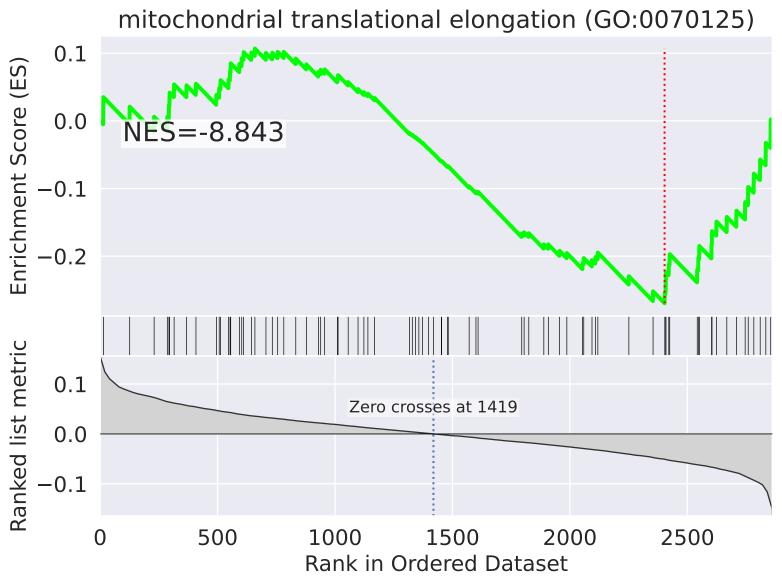


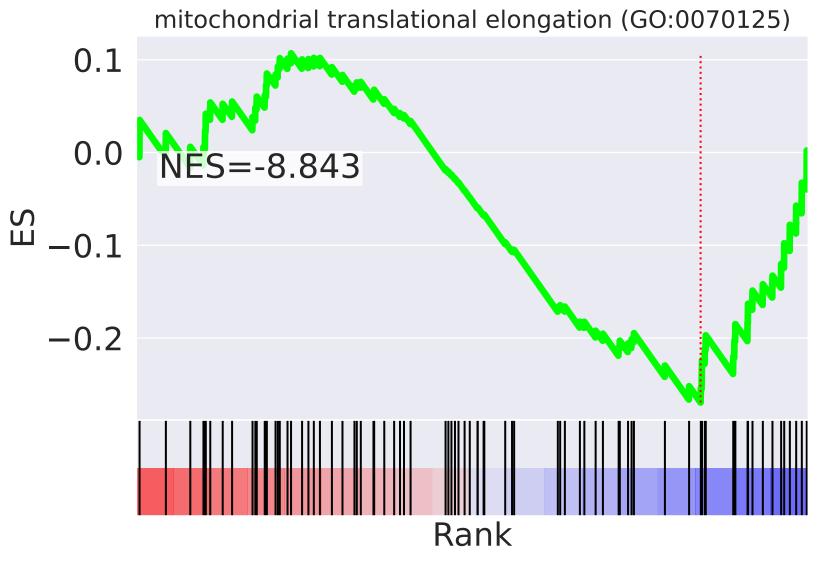
NES	SET
5.417	mitochondrial respiratory chain complex I assembly (GO:0032981)
4.582	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.774	cell differentiation (GO:0030154)
3.741	mitochondrial translational termination (GO:0070126)
3.721	mitochondrial translational elongation (GO:0070125)
3.609	tricarboxylic acid cycle (GO:0006099)
-3.380	transcription initiation from RNA polymerase II promoter (GO:0006367)
-3.148	activation of MAPK activity (GO:0000187)
3.145	cellular nitrogen compound metabolic process (GO:0034641)
3.020	mitochondrion organization (GO:0007005)
2.982	mitochondrial electron transport, cytochrome c to oxygen (GO:0006123)
-2.820	protein N-linked glycosylation via asparagine (GO:0018279)
2.763	heme biosynthetic process (GO:0006783)
-2.712	peroxisome organization (GO:0007031)
-2.640	dephosphorylation (GO:0016311)



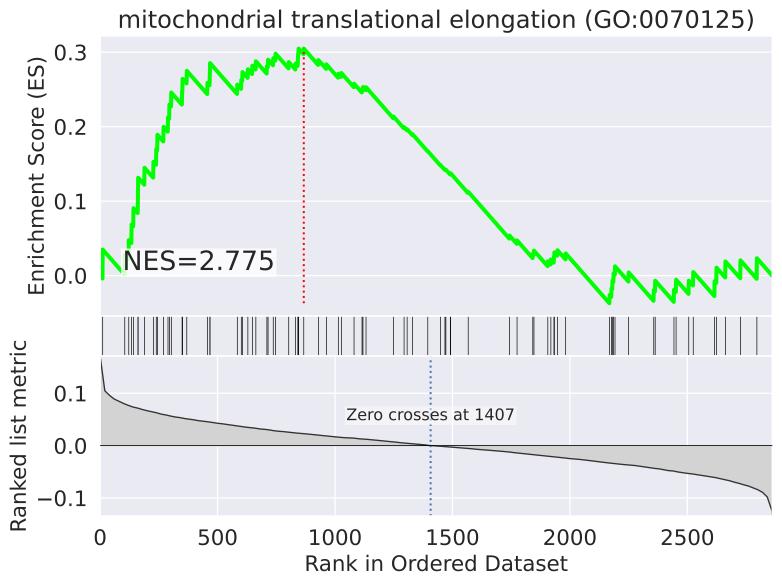


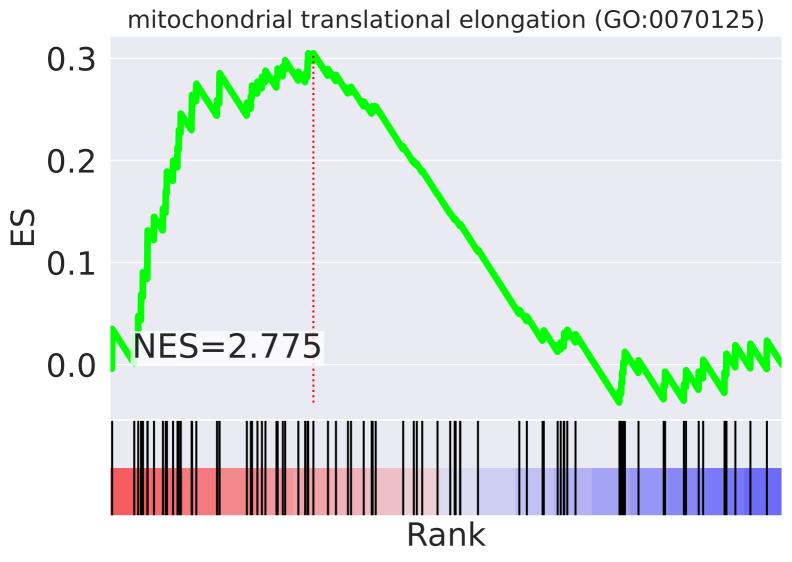
NES	SET
3.786	mitochondrial respiratory chain complex I assembly (GO:0032981)
-3.579	membrane organization (GO:0061024)
3.380	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
-3.207	COPII vesicle coating (GO:0048208)
-3.021	histone H3 acetylation (GO:0043966)
-2.996	negative regulation of telomere maintenance via telomerase (GO:0032211)
2.642	negative regulation of DNA damage response, signal transduction by p53 class mediator (GO:0043518)
-2.548	transcription initiation from RNA polymerase II promoter (GO:0006367)
2.533	generation of precursor metabolites and energy (GO:0006091)
-2.521	nuclear mRNA surveillance (GO:0071028)
-2.438	iron-sulfur cluster assembly (GO:0016226)
-2.375	tRNA transcription from RNA polymerase III promoter (GO:0042797)
-2.375	5S class rRNA transcription from RNA polymerase III type 1 promoter (GO:0042791)
-2.368	tRNA modification (GO:0006400)
2.347	isoprenoid biosynthetic process (GO:0008299)



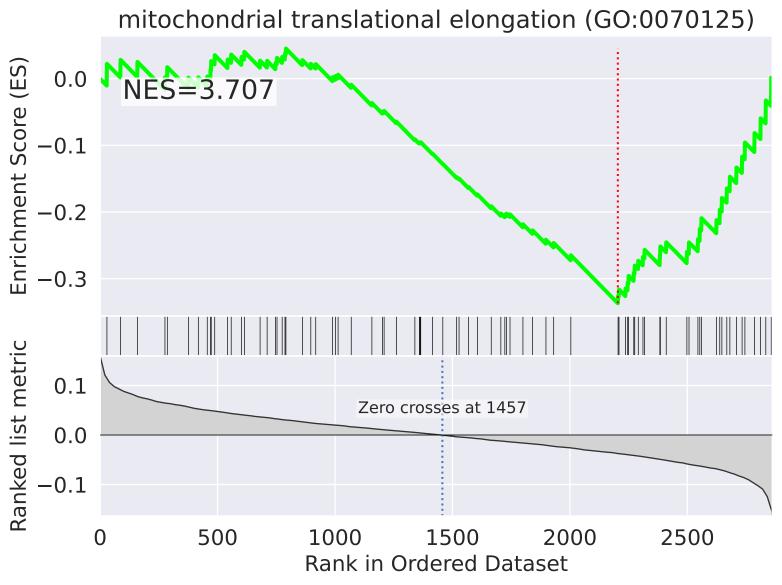


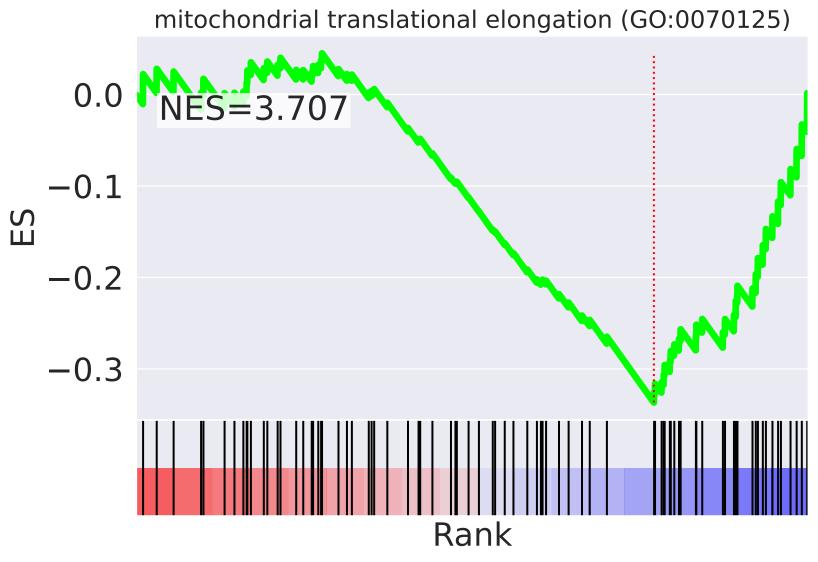
NES	SET
inf	viral transcription (GO:0019083)
inf	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
inf	translational initiation (GO:0006413)
-8.843	mitochondrial translational elongation (GO:0070125)
-8.602	mitochondrial translational termination (GO:0070126)
7.325	regulation of transcription, DNA-templated (GO:0006355)
7.214	transcription from RNA polymerase II promoter (GO:0006366)
7.148	transcription initiation from RNA polymerase II promoter (GO:0006367)
6.665	negative regulation of transcription from RNA polymerase II promoter (GO:0000122)
6.177	protein ubiquitination (GO:0016567)
5.805	protein polyubiquitination (GO:0000209)
5.641	transcription elongation from RNA polymerase II promoter (GO:0006368)
5.556	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
5.382	post-translational protein modification (GO:0043687)
5.300	neutrophil degranulation (GO:0043312)





NES	SET
-3.240	microtubule-based movement (GO:0007018)
3.031	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay (GO:0000184)
2.909	regulation of transcription involved in G1/S transition of mitotic cell cycle (GO:0000083)
2.897	transmembrane transport (GO:0055085)
-2.840	antigen processing and presentation of exogenous peptide antigen via MHC class II (GO:0019886)
2.775	mitochondrial translational elongation (GO:0070125)
2.768	endoplasmic reticulum mannose trimming (GO:1904380)
2.754	SRP-dependent cotranslational protein targeting to membrane (GO:0006614)
2.725	tumor necrosis factor-mediated signaling pathway (GO:0033209)
2.680	translation (GO:0006412)
2.665	mitochondrial translational termination (GO:0070126)
-2.634	regulation of apoptotic process (GO:0042981)
2.572	mitotic chromosome condensation (GO:0007076)
2.540	positive regulation of canonical Wnt signaling pathway (GO:0090263)
2.532	nucleus organization (GO:0006997)





NES	SET
4.869	mitochondrial respiratory chain complex I assembly (GO:0032981)
4.120	mitochondrial electron transport, NADH to ubiquinone (GO:0006120)
3.707	mitochondrial translational elongation (GO:0070125)
3.678	mitochondrial translational termination (GO:0070126)
3.349	gluconeogenesis (GO:0006094)
-3.310	positive regulation of cell migration (GO:0030335)
-2.928	antigen processing and presentation of exogenous peptide antigen via MHC class II (GO:0019886)
2.910	regulation of gene silencing by miRNA (GO:0060964)
2.849	mitochondrial translation (GO:0032543)
2.810	protein import into nucleus (GO:0006606)
-2.808	nucleotide-excision repair, DNA incision, 5'-to lesion (GO:0006296)
-2.808	nucleotide-excision repair, DNA incision (GO:0033683)
-2.608	epidermal growth factor receptor signaling pathway (GO:0007173)
2.596	mitochondrial electron transport, cytochrome c to oxygen (GO:0006123)
2.588	somatic stem cell population maintenance (GO:0035019)