

Table 3. Cellular component GO terms and their p-values for co-expressed proteins.

GO ID	GO term	Protein (SSP) ^{a)}	P adj. ^{b)}	Cluster ^{c)}
5743	Mitochondrial inner membrane	ATP synthase β (93), cytochrome b-c1 (101), Hsp60 (54, 55), prohibitin (176), VDAC-1 (167)	0.0018	2
44429	Mitochondrial part	ATP synthase β (93), cytochrome b-c1 (101), dihydrolipoyl dehydrogenase (66), Hsp60 (54, 55), prohibitin (176), VDAC-1 (167)	0.0059	2
35267	NuA4 HAT complex	RuvB-like 1 (77, 87), ruvB-like 2 (89, 90)	0.0441	2
42645	Mitochondrial nucleoid	ATP synthase β (93), VDAC-1 (167)	0.0441	2
5759	Mitochondrial matrix	ATP synthase β (93), dihydrolipoyl dehydrogenase (66), Hsp60 (54, 55), VDAC-1 (167)	0.0441	2
30141	Secretory granule	Albumin (35, 36), dihydrolipoyl dehydrogenase (66), Hsp60 (54, 55)	0.015	3
5743	Mitochondrial inner membrane	ATP synthase β (93), cytochrome b-c1 complex 1 (101), Hsp60 (55, 54), mAspAT (129), prohibitin (176), VDAC-1 (167)	0.0187	4
44429	Mitochondrial part	ATP synthase β (93), cytochrome b-c1 complex 1 (101), dihydrolipoyl dehydrogenase (66), Hsp60 (54, 55), mitochondrial aldehyde dehydrogenase 2 (mAlhd2) (75), mAspAT (129), prohibitin (176), VDAC-1 (167)	0.0302	4
31974	Membrane-enclosed lumen	Albumin (35, 36), mAlhd2 (75), ATP synthase β (93), cytochrome b-c1 complex 1 (101), dihydrolipoyl dehydrogenase (66), GRP-78 (25, 26, 27), GRP-94 (12), GRP-170 (1, 2), Hsp60 (54, 55), mAspAT (129), PDI (60), prohibitin (176), ruvB-like 1 (77, 87), ruvB-like 2 (89, 90), VDAC-1 (167)	0.032	4
5788	ER lumen	ERp60 (62, 63), GRP-170 (1, 2)	0.0407	5
5788	ER lumen	ERp60 (62, 63, 64), GRP-78 (25, 26, 27), GRP-94 (12), GRP-170 (1, 2), PDI (60)	0.0004	7
42470	Melanosome	ERp60 (62, 64, 63), GRP-78 (25, 26, 27), GRP-94 (12), HSP90AB1 (153), PDI (60)	0.0168	7

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5788	ER lumen	GRP-78 (25, 26, 27), GRP-94 (12), PDI (60)	0.0011	8
5789	ER membrane	GRP-78 (25, 26, 27), GRP-94 (12)	0.0021	8
42470	Melanosome	GRP-78 (25, 26, 27), GRP-94 (12), PDI (60)	0.0046	8
5793	ER-Golgi intermediate compartment	GRP-78 (25, 26, 27), PDI (60)	0.0059	8
42598	Vesicular fraction	GRP-94 (12), PDI (60)	0.0105	8
5783	ER	Neutral α -glucosidase AB (5, 14), ERp5 (97), SET (125), TXNDC5 (99, 100, 108)	0.0074	10
30529	Ribonucleoprotein complex	β -Actin (115, 114, 112, 127), eIF-2- α (142), hnRNP C1/C2 (131, 141, 143), hnRNP K (71), hnRNP Q (116), DDX39B (83), 40S ribosomal protein SA (130)	0.0222	3R, 6R
3167	NuA4 HAT complex	β -Actin (121, 122), ruvB-like 2 (89)	0.0017	5R

^{a)} SSP referring to those numbers in Figure 2 and short protein names referring to those proteins listed in Table S2.

^{b)} P-value adjusted by the Benjamini multiple test adjustment.

^{c)} Cluster numbers referring to those in Figures 3 and 4.