

Protein-Profiling of Genomic Instability in Endometrial Cancer

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S9: Identifications of the diploid- versus aneuploid endometrioid-carcinoma analysis

SSP	Gene symbol	Protein name	Accession number	Sequence coverage (%)	Matched/ searched peptides	Score	N vs. De	De vs. Ae	Ae vs. Au	De vs. Au	Trend (N-De-Ae-Au)	Fold change (logarithmized)
Lower expression in aneuploid endometrioid cancer												
1501	VIM	Vimentin	AAA61279	68	39/96	2.8×10^{-5}		↓			↓	0.80
7815	LMNA	Laminin-A/C isoform 1	NP_733821	31	16/39	3.8×10^{-7}		↓				0.34
8620	PDIA3	Protein disulfide-isomerase family A member 3 ^a	NP_005304	27	14/42	7.6×10^{-5}		↓				0.66
Higher expression in aneuploid endometrioid cancer												
615	KRT10	Keratin 10 ^a	AAH34697	33	20/80	5.1×10^{-7}		↑				1.68
1210	KRT9	Cytokeratin 9 ^a	NP_000217	24	8/47	9.2×10^{-3}		↑				1.38
1313	ACTB	β-actin	AAH12854	28	7/33	1.8×10^{-3}		↑			↑	1.17
2006	THEMIS	Thymocyte selection associated	CAI13396	14	7/74	0.32		↑				2.03
2007	ACTB	β-actin	AAH12854	28	7/33	9.4×10^{-3}		↑		↑	↑	1.55
2120	ACTB	β-actin	AAH12854	28	7/33	0.55		↑				1.29
2623	ATP5B	ATP-Synthase 5B	NP_001677	15	5/43	4.7×10^{-11}		↑				1.08
3230	ACTB	ACTB	AAH12854	28	7/33	0.080		↑		↑		1.15
3314	ATP5B	ATP-Synthase 5B	NP_001677	15	5/43	0.071		↑				1.42
3505	ATP5B	ATP-Synthase 5B	NP_001677	15	5/43	3.2×10^{-3}		↑				1.16
3806	HSPA5	HSP70 protein 5	NP_005338	26	14/100	1.6×10^{-3}		↑				1.32
4006	ACTG1	γ-actin	AAH10417	31	4/46	0.21		↑		↑	↑	1.37
4107	HSPB1	HSP27	NP_001531	33	7/49	0.037		↑				1.21
4419	ALB	Albumin	NP_000468	19	12/48	2.8×10^{-5}		↑		↑		1.30
5104	ACTB	β-actin	AAH12854	28	7/33	2.0×10^{-7}		↑		↑	↑	1.16
5230	ANXA2	Annexin A2	AAH09564	43	15/53	2.9×10^{-4}		↑		↑	↑	1.24
7123	GRB2	Growth factor receptor-bound protein 2	NP_002077	21	6/45	0.021		↑				1.17

^a Three proteins (KRT10, KRT9, and PDIA3) were identified out of at least two protein spots and showed non homogenous up- or down regulation between groups due to possible post-translational modification and were thus excluded from all pathway analysis.

SSP, Individual identification number for protein spots analysis software; N, normal ; De, diploid endometrioid ; Ae, aneuploid endometrioid ; Au, aneuploid UPSC