

Protein-Profiling of Genomic Instability in Endometrial Cancer

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S10: Identifications of the diploid endometrioid-cancer versus aneuploid UPSC 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 UPSC												
1607	P4HB	Prolyl 4-hydroxylase, beta polypeptide	NP_000909	26	11/46	2.2×10^{-3}				↓		0.88
2302	ANXA5	Annexin A5 ^a	NP_001145	56	19/96	5.3×10^{-4}				↓	↓	0.86
3009	RAB18	RAB18	NP_067075	30	6/68	0.10				↓		0.85
5703	HNRNPK	Heterogeneous nuclear ribonucleoprotein K isoform a	NP_112553	36	14/57	2.2×10^{-5}				↓		0.40
9301	AKR7A2	Aflatoxin B1 aldehyd reductase member 2	NP_003680	32	11/37	3.2×10^{-5}				↓		0.62
Higher expression in aneuploid UPSC												
2003	ANXA5	Annexin A5 ^a	NP_001145	21	8/48	7.8×10^{-3}				↑		1.37
2007	ACTB	β-actin	AAH12854	28	7/33	9.4×10^{-3}		↑		↑	↑	1.63
2111	HSP90AB1	HSP90 alpha (cytosolic), class B ^a	NP_031381	28	17/57	0.16				↑	↑	1.30
3230	ACTB	β-actin	AAH12854	28	7/33	0.080		↑		↑	↑	1.17
4006	ACTG1	γ-actin	AAH10417	31	4/46	0.21		↑		↑	↑	1.35
4315	PDIA6	Prot disulfide-isomerase A6	NP_005733	31	9/52	7.3×10^{-4}				↑	↑	1.33
4419	ALB	Albumin	NP_000468	19	12/48	2.8×10^{-5}		↑		↑	↑	1.31
5104	ACTB	β-actin	AAH12854	28	7/33	2.0×10^{-7}		↑		↑	↑	1.20
5107	PRDX4	Peroxiredoxin-4	NP_006397	31	5/45	0.21				↑		1.28
5230	ANXA2	Annexin A2	AAH09564	43	15/53	2.9×10^{-4}		↑		↑	↑	1.33

^a Two proteins (ANXA5 and HSP90AB1) 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