

## Supplementary material

**Table S1. Candidate targets of Cordycepin combined with Doxorubicin against breast cancer**

Uniprot ID	Target Gene	Target Protein
P00813	ADA	Adenosine deaminase
P04053	TDT	DNA nucleotidylexotransferase
P09874	PARP1	Poly ADP-ribose polymerase 1
P03956	MMP1	Interstitial collagenase
P08254	MMP3	Stromelysin-1
P19838	NFKB1	Nuclear factor NF-kappa-B p105 subunit
P16885	PLCG2	1-phosphatidylinositol 4,5-bisphosphate gamma-2 phosphodiesterase
O15519	CFLAR	CASP8 and FADD-like apoptosis regulator
P38398	BRCA1	Breast cancer type 1 susceptibility protein
P37275	ZEB1	Zinc finger E-box-binding homeobox 1
P22301	IL10	Interleukin-10
P60568	IL2	Interleukin-2
Q15672	TWIST1	Twist-related protein 1
P52926	HMG A2	High mobility group protein HMGI-C
P01589	IL2RA	Interleukin-2 receptor subunit alpha
P05362	ICAM1	Intercellular adhesion molecule 1
P02786	TFRC	Transferrin receptor protein 1
Q13131	PRKAA1	5'-AMP-activated protein kinase catalytic subunit alpha-1
P14780	MMP9	Matrix metalloproteinase-9
P13500	CCL2	C-C motif chemokine 2
P09341	CXCL1	Growth-regulated alpha protein
P0DMS8	ADORA3	Adenosine receptor A3
P09429	HMGB1	High mobility group protein B1
P01138	NGF	Beta-nerve growth factor
P11387	TOP1	DNA topoisomerase 1
P01106	MYC	Myc proto-oncogene protein
P45983	MAPK8	Mitogen-activated protein kinase 8
Q07820	MCL1	Induced myeloid leukemia cell differentiation protein Mcl-1
Q03135	CAV1	Caveolin-1
P98170	XIAP	E3 ubiquitin-protein ligase XIAP
O15392	BIRC5	Baculoviral IAP repeat-containing protein 5
O43524	FOXO3	Forkhead box protein O3
P55212	CASP6	Caspase-6
P42574	CASP3	Caspase-3
P08758	ANXA5	Annexin A5
P0DMV8	HSPA1A	Heat shock 70 kDa protein 1A
P06401	PGR NR3C3	Progesterone receptor
P49327	FASN	Fatty acid synthase
P06748	NPM1	Nucleophosmin
P06241	FYN	Tyrosine-protein kinase Fyn
Q12879	GRIN2A	Glutamate receptor ionotropic, NMDA 2A
Q13541	EIF4EBP1	Eukaryotic translation initiation factor 4E-binding protein 1
P08574	CYC1	Cytochrome c1, heme protein, mitochondrial
P17275	JUNB	Transcription factor jun-B
P47929	LGALS7	Galectin-7
P03897	MT-ND3	NADH-ubiquinone oxidoreductase chain 3
P23526	AHCY	Adenosylhomocysteinase
Q96P68	OXGR1	2-oxoglutarate receptor 1

P11142	HSPA8	Heat shock cognate 71 kDa protein
P30542	ADORA1	Adenosine receptor A1
P29274	ADORA2A	Adenosine receptor A2a
Q99873	PRMT1	Protein arginine N-methyltransferase 1
P26358	DNMT1	DNA (cytosine-5)-methyltransferase 1
Q9UBC3	DNMT3B	DNA (cytosine-5)-methyltransferase 3B
P04406	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
P23109	AMPD1	AMP deaminase 1
P21589	NT5E	5'-nucleotidase
P29275	ADORA2B	Adenosine receptor A2b
Q96PN6	ADCY10	Adenylate cyclase type 10
P11021	HSPA5	Endoplasmic reticulum chaperone BiP
P60953	CDC42	Cell division control protein 42 homolog
Q96KQ7	EHMT2	Histone-lysine N-methyltransferase EHMT2
Q15910	EZH2	Histone-lysine N-methyltransferase EZH2
Q03164	KMT2A	Histone-lysine N-methyltransferase 2A
P23919	DTYMK	Thymidylate kinase
O43318	MAP3K7	Mitogen-activated protein kinase kinase kinase 7
Q06710	PAX8	Paired box protein Pax-8
Q53EL6	PDCD4	Programmed cell death protein 4
P19174	PLCG1	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1
P63000	RAC1	Ras-related C3 botulinum toxin substrate 1
Q99808	SLC29A1	Equilibrative nucleoside transporter 1
O43865	AHCYL1	S-adenosylhomocysteine hydrolase-like protein 1
Q15047	SETDB1	Histone-lysine N-methyltransferase SETDB1
Q8WTS6	SETD7	Histone-lysine N-methyltransferase SETD7
O94759	TRPM2	Transient receptor potential cation channel subfamily M member 2
P27487	DPP4	Dipeptidyl peptidase 4