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Antibodies			
anti-ESCO2 Ab	23525-1-AP	Rabbit	Proteintech
anti-P-mTOR Ab	2971S	Rabbit	Cell Signaling Technology(CST)
anti-mTOR Ab	66888-1-Ig	Mouse	Proteintech
anti-P-AKT Ab	S473	Rabbit	CST
anti-AKT Ab	60203-2-Ig	Mouse	Proteintech
anti-P-PI3K Ab	17366	Rabbit	CST
anti-PI3K Ab	20584-1-AP	Rabbit	Proteintech
anti-β-actin Ab	60008-1-Ig	Mouse	Proteintech
anti-CDK1 Ab	19532-1-AP	Rabbit	Proteintech
anti-CDK2 Ab	60312-1-Ig	Mouse	Proteintech
anti-Cyclin A2 Ab	66391-1-Ig	Mouse	Proteintech
anti-Cyclin B1 Ab	55004-1-AP	Rabbit	Proteintech
anti-BCL2 Ab	26593-1-AP	Rabbit	Proteintech
anti-BAX Ab	60267-1-Ig	Mouse	Proteintech
anti-Caspase3 Ab	66470-2-Ig	Mouse	Proteintech
goat anti-mouse HRP-conjugated IgG		SA00001-1	Proteintech
goat anti-rabbit HRP-conjugated IgG		SA00001-2	Proteintech
Primers name			
ESCO2 (Q-PCR)	Forward	CACTGGGACGCACCCAAAA	
	Reverse	CACTTGCCTTGTCGCAAAAG	
GAPDH (Q-PCR)	Forward	CAGGAGGCATTGCTGATGAT	
	Reverse	GAAGGCTGGGGCTCATTT	
Oligonucleotides			
si-NC	sense:5'-UUCUCCGAACGUGUCACGUTT-3'		
si-ESCO2-1	sense:5'-GCAAUAUCAAGGCUCACCAUTT-3'		
si-ESCO2-2	sense:5'-CUCUUAGACCAGGAUUAUUCTT-3'		
Control shRNA	sense:5'-TTCTCCGAACGTGTCACGT-3'		
sh-ESCO2	sense:5'-GCAAATCAAGGCTCACCAT-3'		

Table S2. The clinical parameters and corresponding ESCO2 expression value of enrolled patients in this study.