

Supplementary Table S4

Proteins involved in the DNA repair and/or replication pathways

PREY	Damage Repair		Cellular Response		CHK1 PATHWAY
APEX1		BER			X
AURKB			Cell cycle		X
AQR		NER			
CAD				Others	
CCAR2				Others	
CDK1			Replication	Cell cycle	X
CDK16				Cell cycle	
CNOT1				Cell cycle Others	
CUL4A		NER		Cell cycle Others	X
CUL4B		NER		Cell cycle Others	X
DDX1	DSB				
DNAJA1				Others	
FEN1	DSB HR		Replication		X
FMR1				Others	
HUWE1		BER			
IFI16				Others	
MCM2	DSB HR		Replication		
MCM3	DSB HR		Replication		
MCM4	DSB HR		Replication		
MCM5	DSB HR		Replication		
MCM6	DSB HR		Replication		X
MCM7	DSB HR		Replication		X
MMS19		NER			
MSH2	DSB		MMR		X
MSH6	DSB		MMR		X
OTUB1				Others	
PARP1	DSB HR	NER			
POLD1		NER BER	Replication		
PRKDC	DSB	NHEJ		Others	X
RECQL	DSB HR		Replication		X
RFC1		NER	Replication		
RFC5		NER	Replication		
RPA1	DSB HR	NER BER MMR	Replication		X
RPL26				Others	
RSL1D1				Others	
RUVBL1				Others	
RUVBL2				Others	
SMCHD1	DSB				
TNKS1BP1	DSB				
TRIP13	DSB				X
XRCC5	DSB	NHEJ			X
XRCC6	DSB	NHEJ			X
YWHAG	DSB		Cell cycle		X