

Extended Data Fig. 2b

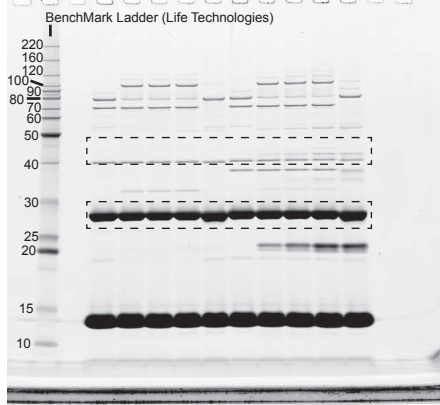


Fig. 1a bottom

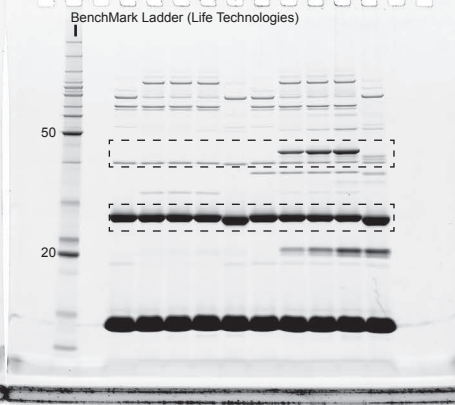
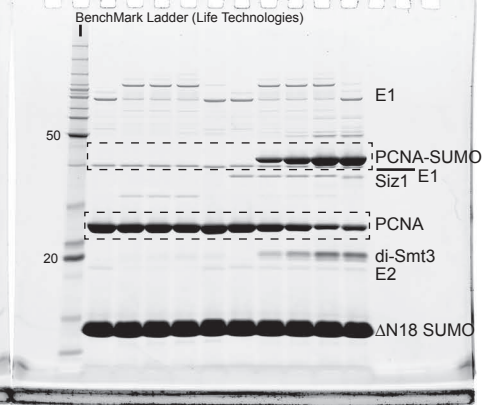
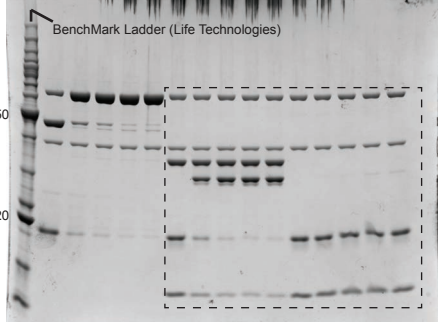


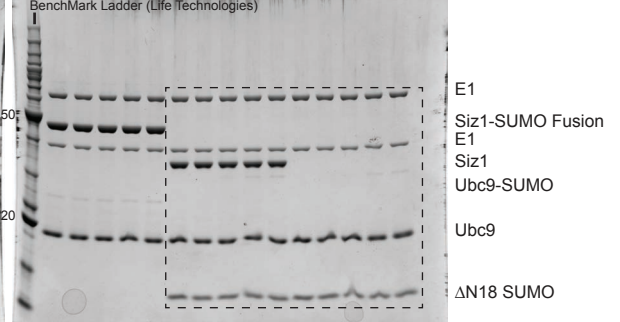
Fig. 1a top



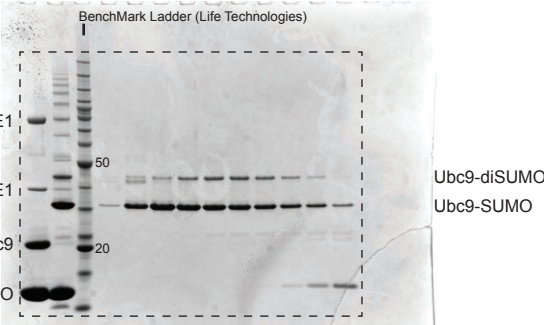
Extended Data Fig. 1a left, top



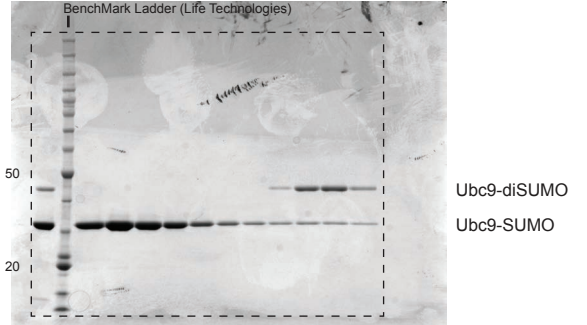
Extended Data Fig. 1a left, bottom



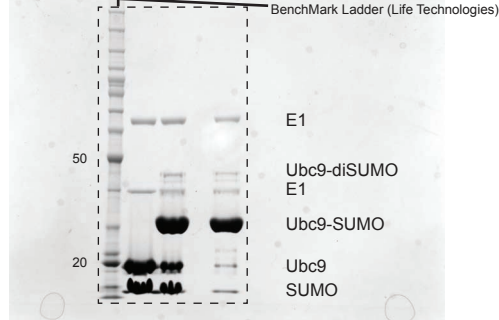
Extended Data Fig. 1a middle, top



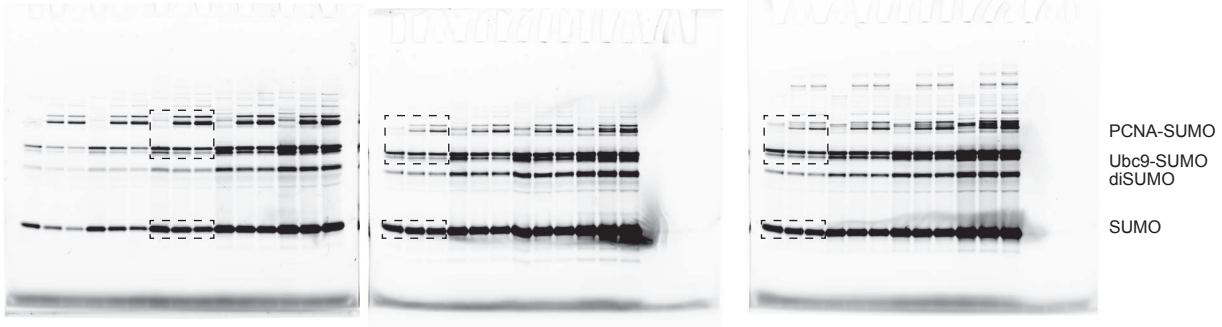
Extended Data Fig. 1a middle, bottom



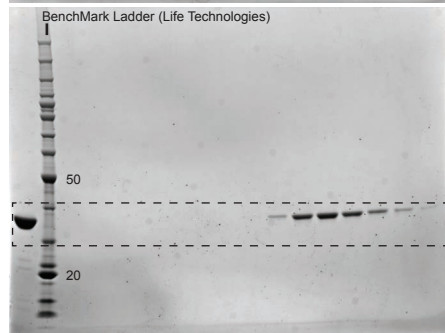
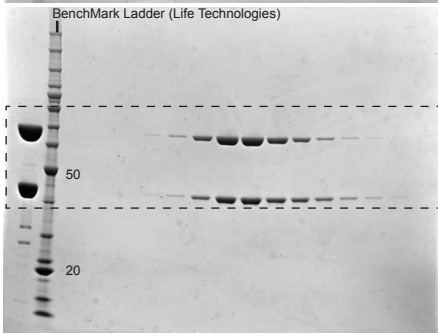
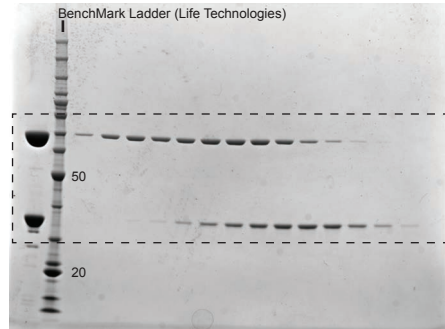
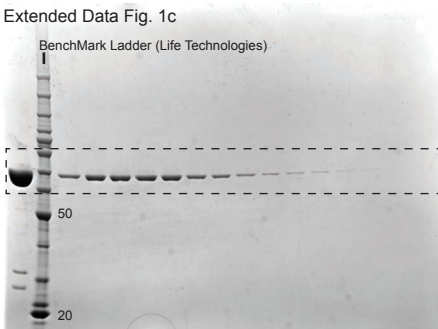
Extended Data Fig. 1a right



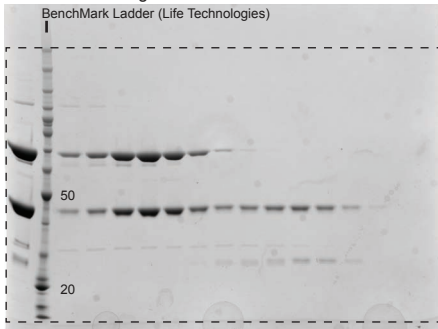
Extended Data Fig. 1b



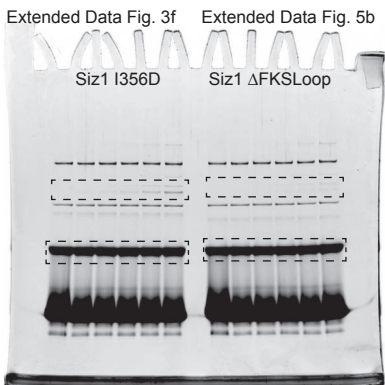
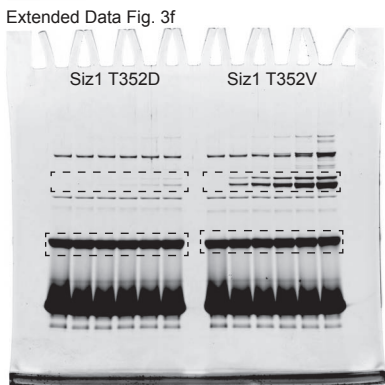
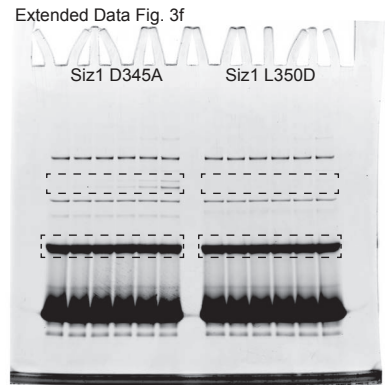
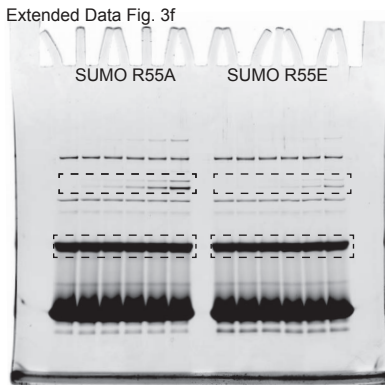
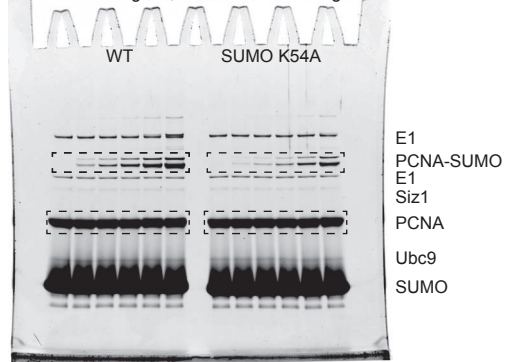
Extended Data Fig. 1c

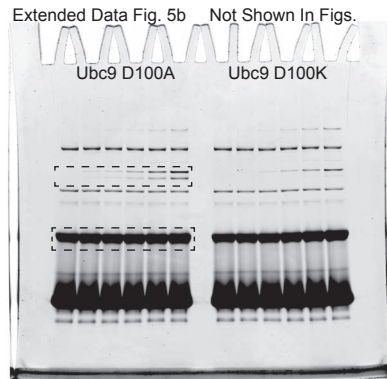
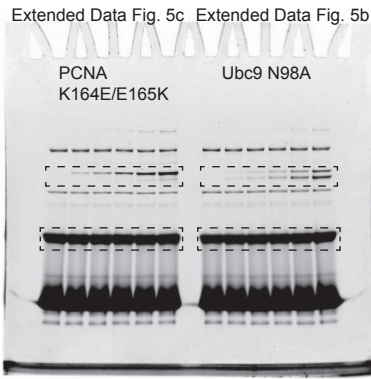
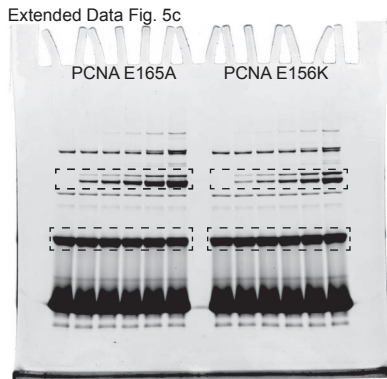


Extended Data Fig. 2c

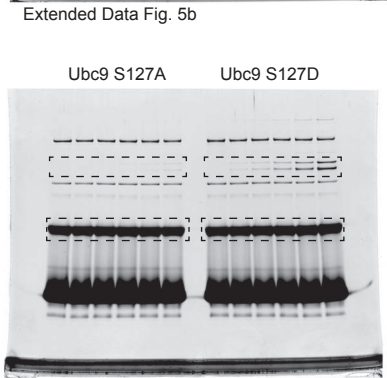
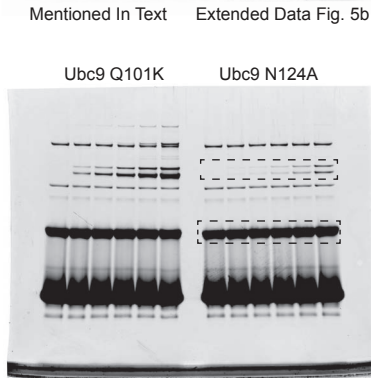
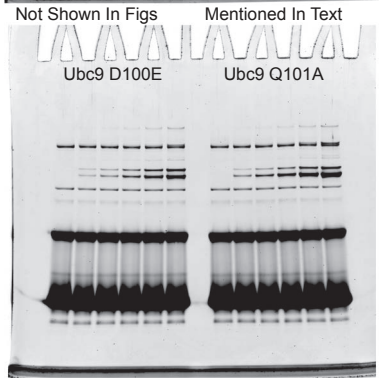


Extended Data Fig. 3f, Extended Data Fig. 5b,c, Extended Data Fig. 3f

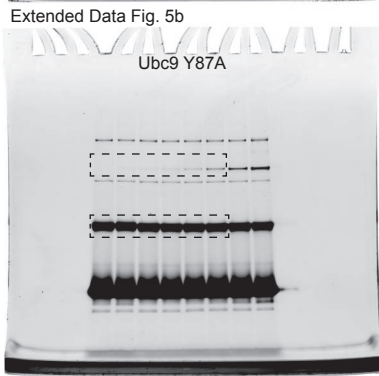




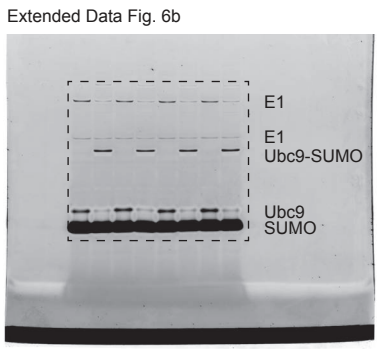
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PCNA-SUMO  
E1  
Siz1  
PCNA  
Ubc9  
SUMO



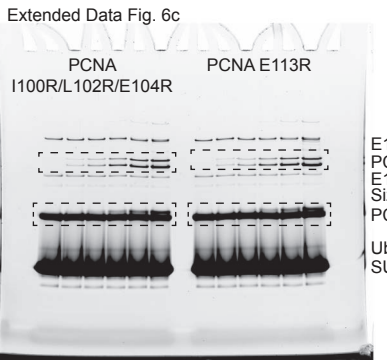
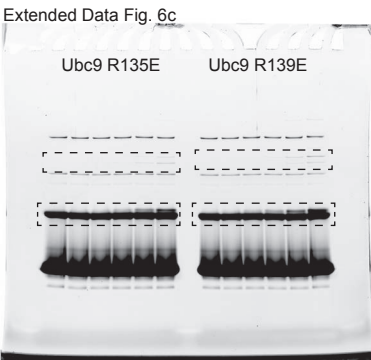
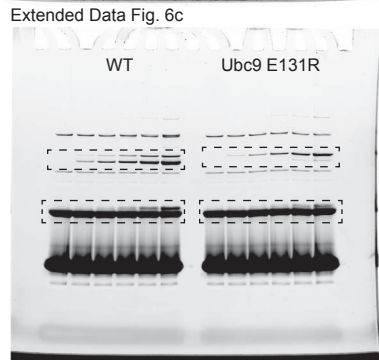
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E1  
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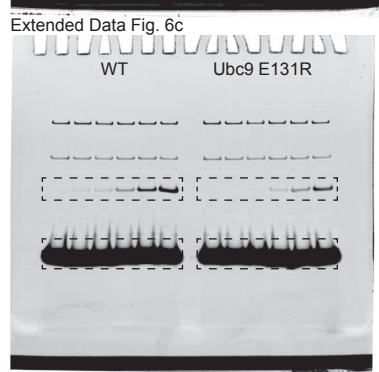
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E1  
Siz1  
PCNA  
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SUMO



E1  
E1-Ubc9-SUMO  
Ubc9-SUMO



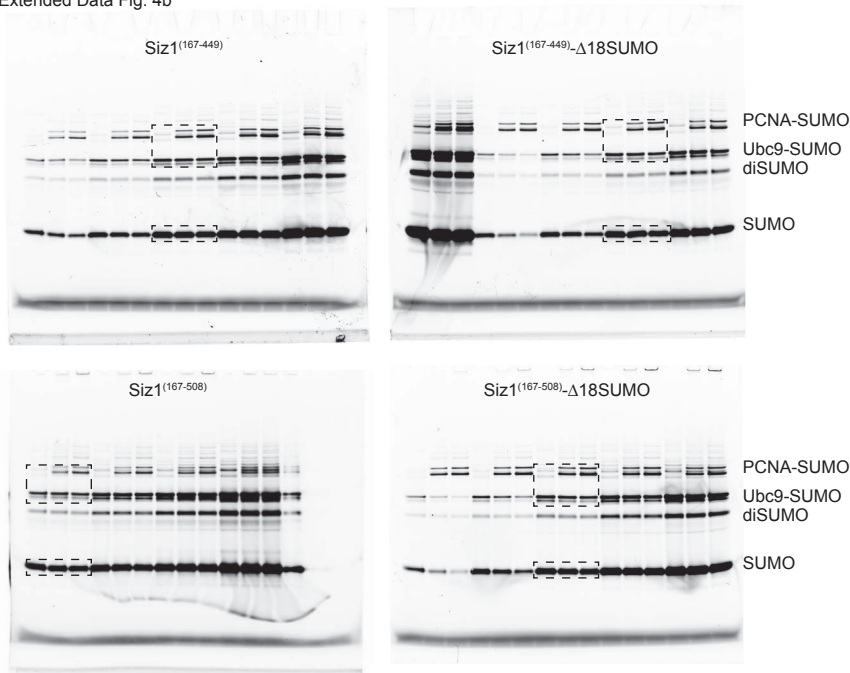
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E1  
Siz1  
PCNA  
Ubc9  
SUMO



E1  
E1  
Siz1  
diSUMO  
Ubc9  
SUMO



Extended Data Fig. 4b



Extended Data Fig. 5d

