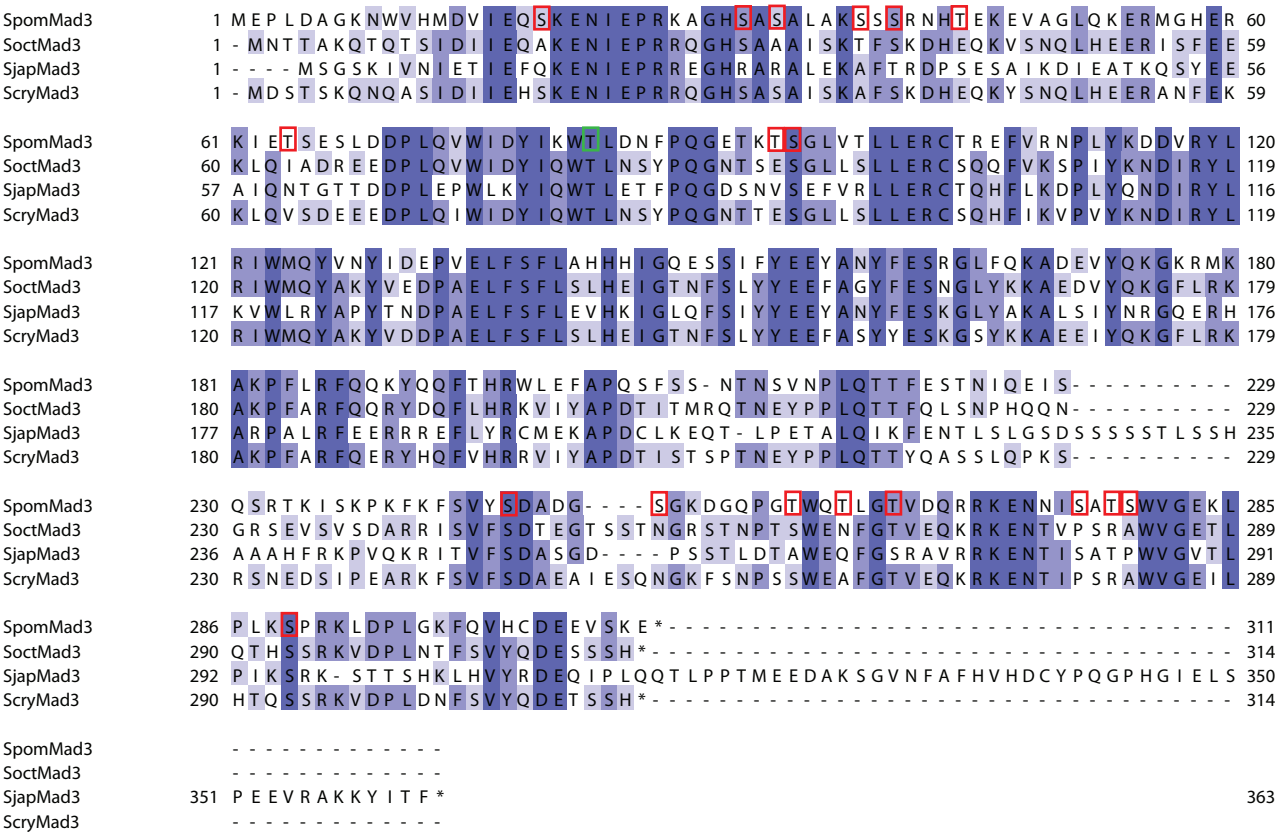
A



B

Mad3 phospho-sites

in vitro Mps1 kinase assay

S19,S31,S33,S38,S40,T44,T64,
T93,S94,T195,T259,T262,T265
S276,T278,S279

in vivo Mad3-TAP

$S19,S31,S33^{2},T64^{2},$
$T82^{3(Ark1?)},S246^{2},S251^{3},T259^{2}$
$S276^{3},T278,S279,S289^{10(CDK)}$

in vitro Mps1 sites confirmed *in vivo*

S19,S31,S33,T64,
T259,S276,T278,S279