

Supporting Information

Edenberg et al. 10.1073/pnas.1315325111

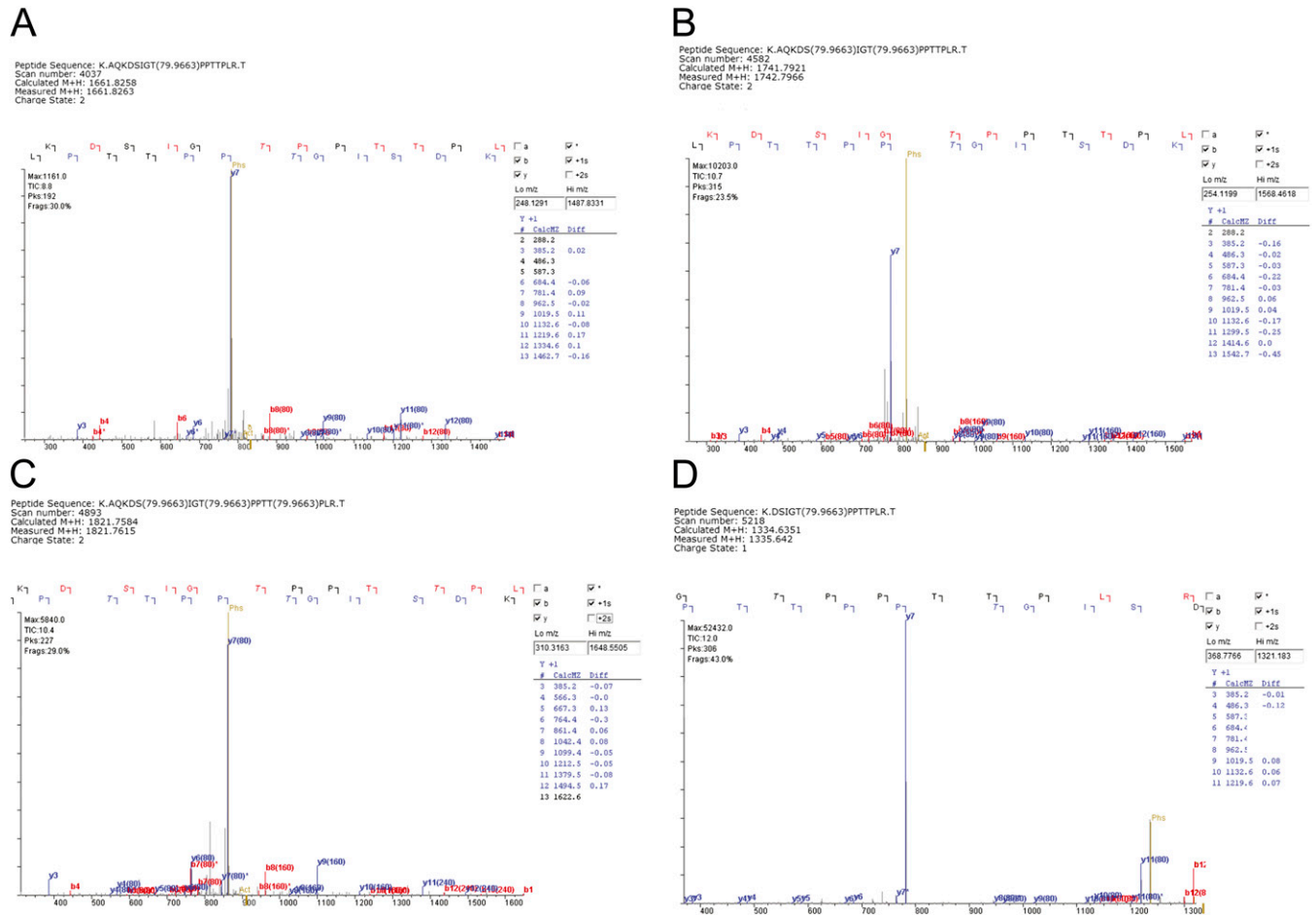
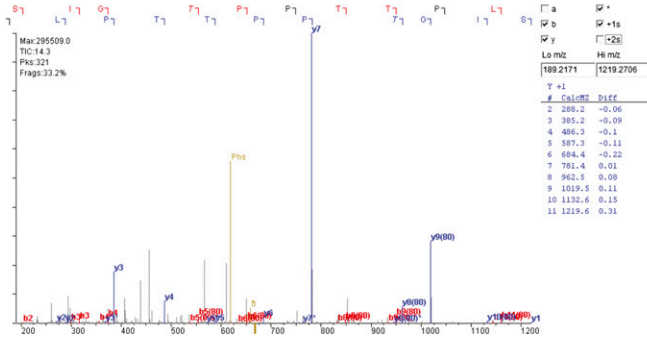


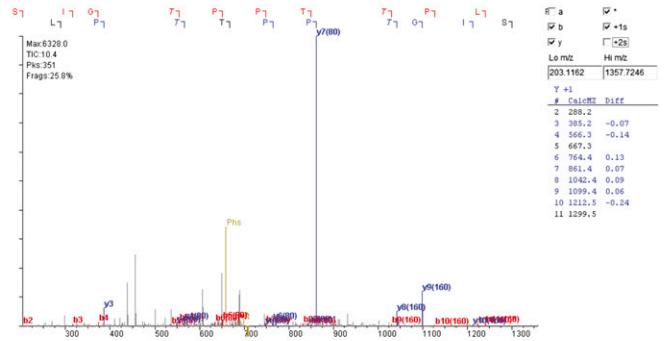
Fig. S1. (Continued)

E

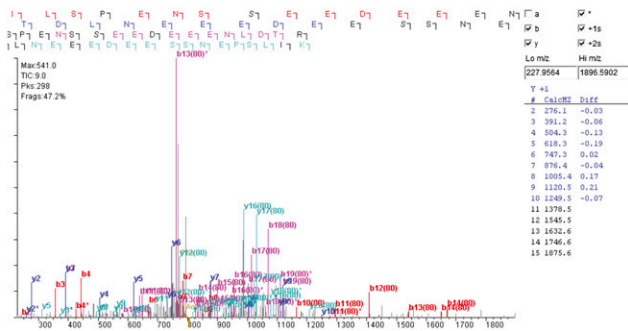
Peptide Sequence: K.DSIGT(79.9663)PPTTPLR.T
 Scan number: 5255
 Calculated M+H: 1334.6351
 Measured M+H: 1334.6362
 Charge State: 2

**F**

Peptide Sequence: K.DSIGT(79.9663)PPTT(79.9663)PLR.T
 Scan number: 5549
 Calculated M+H: 1414.6014
 Measured M+H: 1414.6018
 Charge State: 2

**G**

Peptide Sequence: R.KILSPENSS(79.9663)EEDEEENLDR.K
 Scan number: 4641
 Calculated M+H: 2414.0242
 Measured M+H: 2415.0247
 Charge State: 3

**H**

Peptide Sequence: R.KILS(79.9663)PENSS(79.9663)EEDEEENLDR.K
 Scan number: 5527
 Calculated M+H: 2493.9905
 Measured M+H: 2494.9937
 Charge State: 2

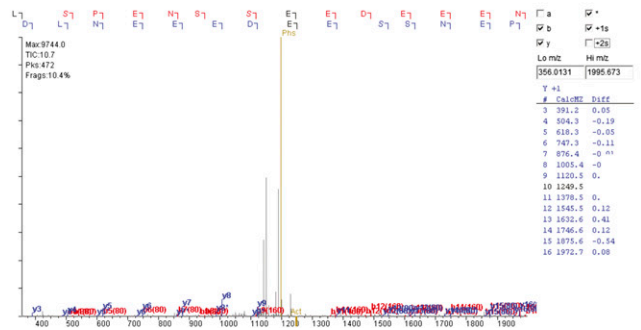


Fig. S1. (Continued)

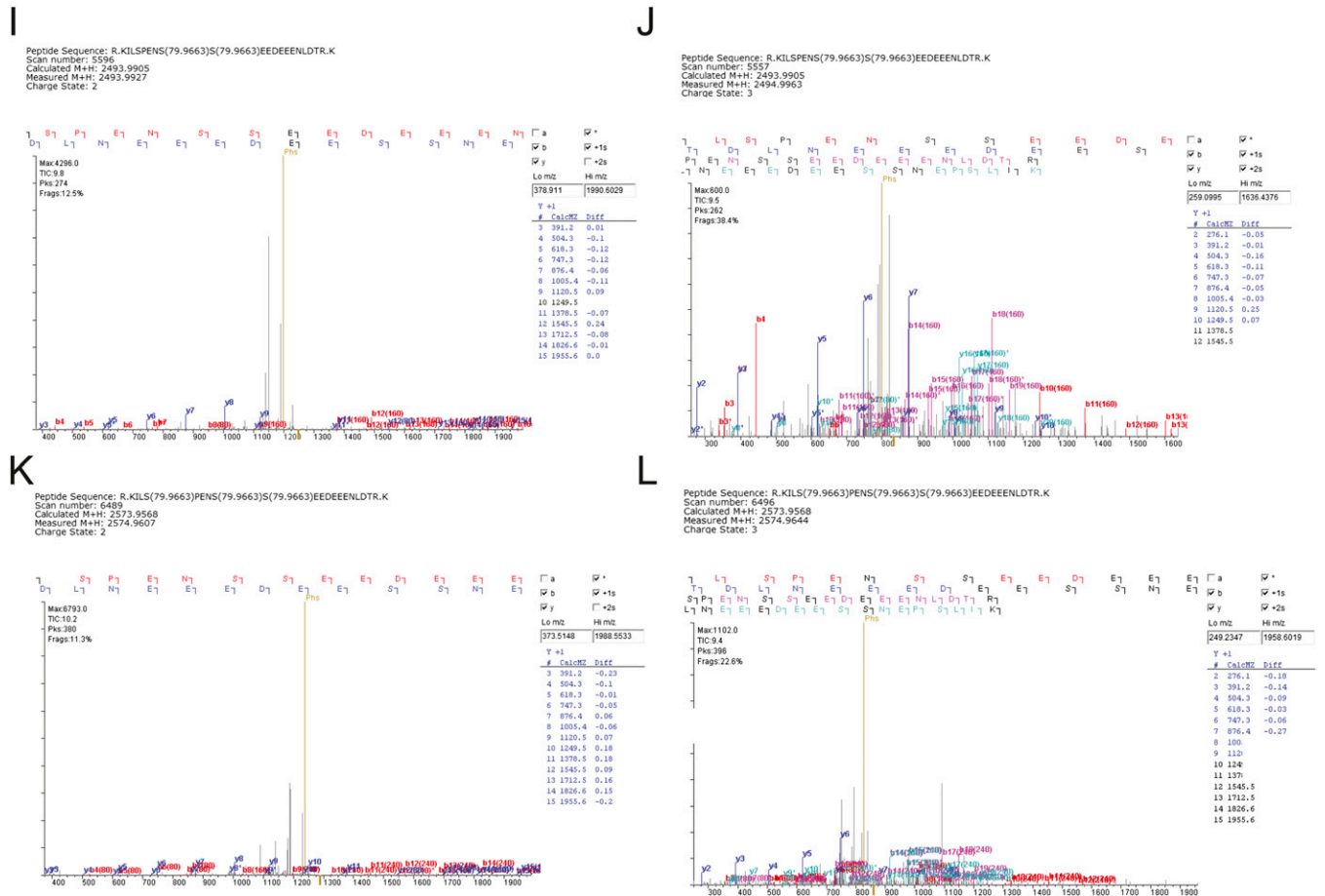
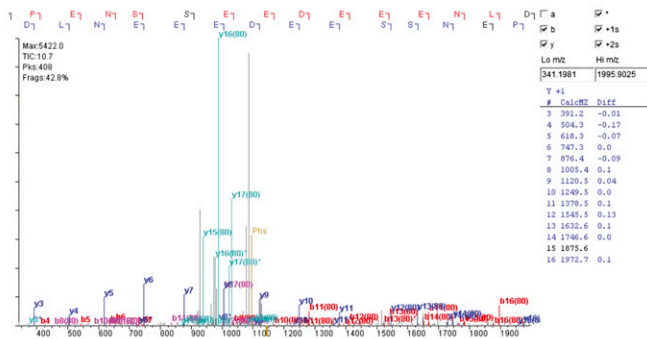


Fig. S1. (Continued)

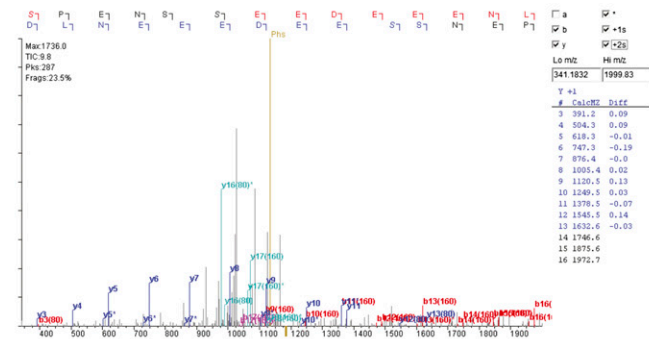
M

Peptide Sequence: K.ILSPENSS(79.9663)EEDEEENLDTR.K
 Scan number: 5428
 Calculated M+H: 2285.9292
 Measured M+H: 2285.932
 Charge State: 2



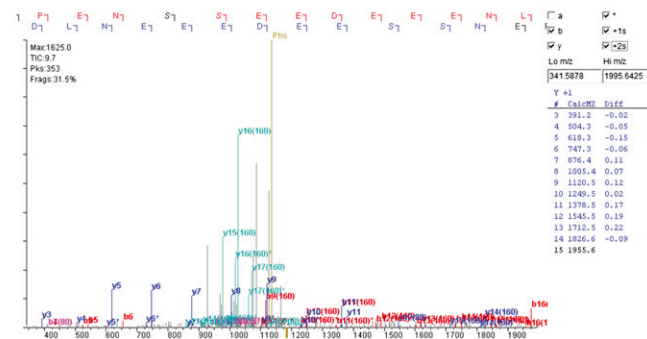
N

Peptide Sequence: K.ILS(79.9663)PENSS(79.9663)EEDEEENLDTR.K
 Scan number: 6537
 Calculated M+H: 2365.8955
 Measured M+H: 2365.8982
 Charge State: 2



O

Peptide Sequence: K.ILSPENS(79.9663)S(79.9663)EEDEEENLDTR.K
 Scan number: 6674
 Calculated M+H: 2365.8955
 Measured M+H: 2366.9055
 Charge State: 2



P

Peptide Sequence: K.ILS(79.9663)PENS(79.9663)S(79.9663)EEDEEENLDTR.K
 Scan number: 15674
 Calculated M+H: 2445.8618
 Measured M+H: 2446.8682
 Charge State: 2

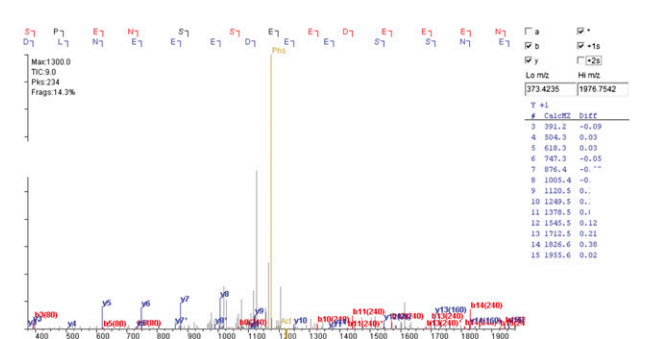
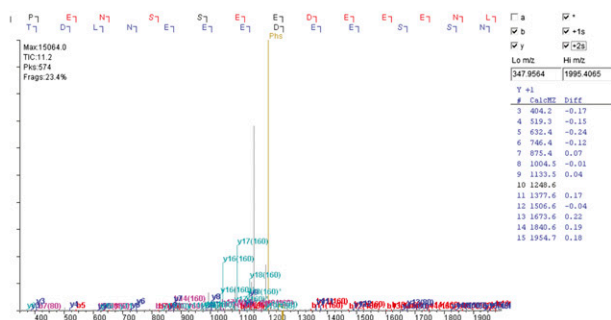


Fig. S1. (Continued)

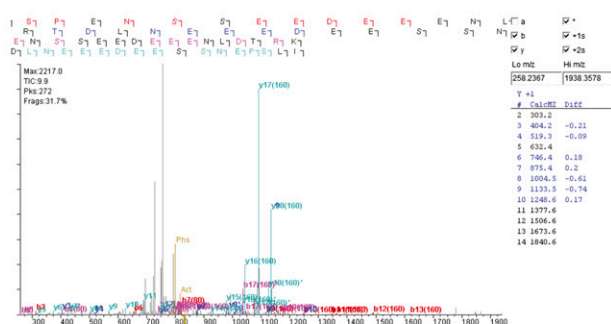
Q

Peptide Sequence: K.IILSPENS(79.9663)S(79.9663)EEDEEENLDRK.R
 Scan number: 5339
 Calculated M+H: 2493.9905
 Measured M+H: 2494.9949
 Charge State: 2



R

Peptide Sequence: K.IILSPENS(79.9663)S(79.9663)EEDEEENLDRK.R
 Scan number: 5343
 Calculated M+H: 2493.9905
 Measured M+H: 2494.997
 Charge State: 3



S

Peptide Sequence: K.DSISGT(79.9663)PPTTPLR.T
 Scan number: 5394
 Calculated M+H: 1334.6351
 Measured M+H: 1334.6373
 Charge State: 2

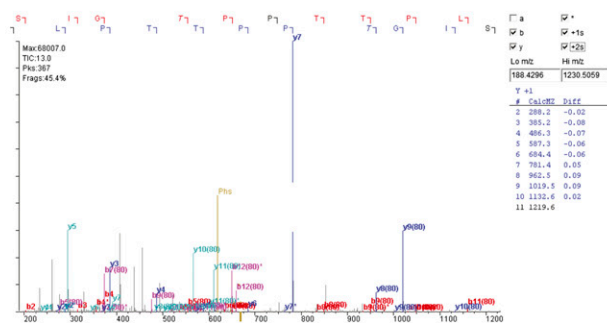


Fig. S1. Spectra from mass spectrometry analysis of phospho-sites identified within degnon 1 (D1) and degnon 2 (D2). (A–R) Spectra from purification in the presence of methyl methane sulfonate (MMS). (S) Spectra from purification from untreated cells. All sites were identified in more than one peptide.

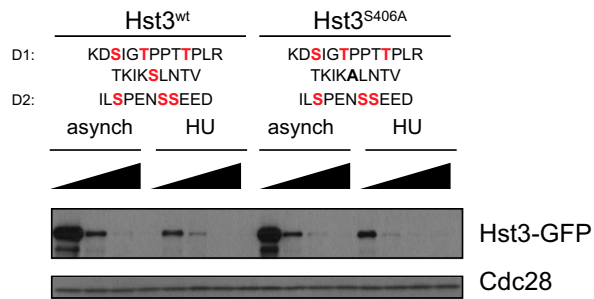


Fig. S4. Hst3 turnover is unaffected by mutation of S406. Wild-type phosphorylated residues are in red, and mutations are in black. The experiment was performed as in Fig. 4, with Hst3 expressed under the control of the *GAL1* promoter and tagged with GFP. The black triangle indicates the time after the addition of cycloheximide ($t = 0, 15, 30,$ and 45 min).

Table S1. Details of mass spectrometry analysis on Hst3

Sites	Part of degnon?
Site in untreated cells	
T380	D1
Sites in MMS-treated cells	
T172	
S173	
T377	D1
T380	D1
T384	D1
S406	
S416	D2
S420	D2
S421	D2

