SUPPLEMENTARY FIGURES

FIGURE S1. The peptide sequence coverage for identified amyloid-forming proteins. Regions of the protein sequence that match identified peptides by tandem mass spectrometry are highlighted in gray. A, B, the peptide sequence coverages for S. cerevisiae Sup35 and Rng1 prion proteins in a representative tryptically-digested protein sample prepared from strain 74D-694 [PSI+][RNQ+]. P.D. indicates their respective low-complexity prion domains. For the Rng1 sequence, all possible tryptic cleavage sites are marked with arrows. C. the sequence coverage of HttQ74-GFP recovered from PC12 cells. D, sequence coverage of ubiquitin (recovered together with HttQ74-GFP from PC12 cells).

FIGURE S2. Mass Spectra for peptides of *S. cerevisiae* Sup35 and Rnq1 prion proteins in representative trypticallydigested protein samples prepared from strain 74D-694 [*PSI*+][*RNQ*+]. MS^E has been applied after 1D reverse phase (RP) liquid chromatography (LC) of the peptide mixture. *A*, MS spectrum of the precursor ions that matched to the identified Sup35 prion protein. RT - retention time for each precursor during RPLC; relative peptide

intensity is shown on the vertical (ordinate) axis. Standard peptides that matched Sup35 are shown in blue; peptides containing a miscleavage site are shown in red. Grey and magenta codify peptides of other proteins in the sample. **B**, MS-MS spectrum assigned to the peptide sequence of Sup35 (R)HINAPFMLPIAAK(M) with MH+(Da) 1422.7946. C, MS spectrum of the precursor ions that matched to the identified Rng1 prion protein are shown in blue. Grey and magenta codify peptides of other proteins in the sample. D, MS-MS assigned to the peptide sequence of Rng1 (K)LISEAESHFSQGNHAEAVAK(L) with MH+(Da) 2125.0317.

FIGURE S3. Gene ontology analysis of the identified proteins. A histogram indicating the biological processes that are assigned to the 15 yeast proteins identified in the SDS-resistant fractions in comparison with the whole yeast proteome. The analysis has been done utilizing the Panther database and tools (http://www.pantherdb.org). The analyzed group is significantly enriched in proteins involved in cell communication, cell cycle, system process, developmental process and homeostatic process (indicated by *)

Figure S1

A. Sup35

1	MSDSNQGNNQ	QNYQQYSQNG	NQQQGNNRYQ	GYQAYNAQAQ	PAGGYYQNYQ	_
51	GYSGYQQGGY	QQYNPDAGYQ	QQYNPQGGYQ	QYNPQGGYQQ	QFNPQGGRGN	P.D.
101	YKN FNYNNN L	OGYOAGFOPO	SOGMSLNDFO	KOOKOAAPKP	KKTLKLVSSS	
151	GIKLANATKK	VGTKPAESDK	KEEEKSAETK	EPTKEPTKVE	EPVKKEEKPV	
201	QTEEKTEEKS	ELPKVEDLKI	SESTHNTNNA	NVTSADALIK	EQEEEVDDEV	
251	VNDMFGGKDH	VSLIFMGHVD	AGKSTMGGNL	LYLTGSVDKR	TIEKYEREAK	
301	DAGRQGWYLS	WVMDTNKEER	NDGKTIEVGK	AYFETEKRRY	TILDAPGHKM	
351	YVSEMIGGAS	QADVGVLVIS	ARKGEYETGF	ERGGQTREHA	LLAKTQGVNK	
401	MAAAANKWDD	PTVNUSKERY	DQCVSNVSNF	LRAIGYNIKT	DVVFMPVSGY	
451	SGANLKDHVD	PKECPWYTGP	TLLEYLDTMN	HVDRHINAPF	MLPIAAKMKD	
501	LGTIVEGKIE	SGHIKKGQST	L LMPNRTAVE	IQNIYNETEN	EVDMAMCGEQ	
551	VKLRIKGVEE	EDISPGFVLT	SPKNPIKSVT	KFVAQIAIVE	LKSIIAAGFS	
601	CVMHVHTAIE	EVHIVKLLHK	LEKGTNRKSK	KPPAFAKKGM	KVIAVLETEA	
651	PWCWETYQDY	POLGRFTLRD	QGTTIAIGKI	VKIAE		

B. Rnq1

B. Rnq1							
	+		+		\		
1	MDTDKLISEA	ESHFSQGNHA	EAVAKLTSAA	QSNPNDEQMS	TIESLIQKIA		
51	GYVMDNRSGG	SDASQDRAAG	GGSSFMNTLM	ADSKČSSQTQ	LGKLALLATV		
101	MTHSSNKÖSS	NRGFDVGTVM	SMLSGSGGGS	QSMGASGLAA	LASOFFKSGN	Ъ	
151	NSQGQGQGQG	QGQGQGQGQG	OGSFTALASL	ASSFMNSNNN	NQQGQNQSSG		
201	GSSFGALASM	ASSFMHSNNN	QNSNNSQQGY	NQSYQNGNQN	SQGYNNQQYQ	P.D.	
251	GGNGGYQQQQ	GQSGGAFSSL	ASMAQSYLGG	GQTQSNQQQY	NQQGQNNQQQ	r	
301	YQQQGQNYQH	00000000000	HSSSFSALAS	MASSYLGNNS	NSNSSYGGQQ		
351	QANEYGRPQQ	NGQQQSNEYG	RPQYGGNQNS	NGQHESFNFS	GNFSQQNNNG	J	
401	NONE						

C. HttQ74-GFP

1 51	MKAFESLKSF QQQQQQQQQQQ	00000000000	00000000000	00000000000 0000PPPPPP	0000000000 PPPPPQLPQP	poly - Q	
101	PPQAQPLLPQ	PQPPPPPPPP	PPGPGVSKGE	ELFTGVVPIL	VE LD GD VNGH		
151	KFSVSGEGEG	DATYGKLTLK	FICTTGKLPV	PWPTLVTTLT	YGVQCFSRYP		
201	DHMKQHDFFK	SAMPEGYVQE	RTIFFKDDGN	YKTRAEVKFE	GDTLVNRIEL		
251	KGIDFKEDGN	ILGHKLEYNY	NS HNVY IMAD	KQKNGIKVNF	KI RHNI EDGS		
301	VQLADHYQQN	TPIGDGPVLL	PDNHYLSTQS	ALSKDPNEKR	DHMVLLEFVT		
351	AAGITLGMDE	LYK					

D. Polyubiquitin recovered with HttQ74-GFP

1	MQIFVKTLTG	KTITLEVEPS	DTIENVKAKI	QDKEGIPPDQ	QRLIFAGKQL
51	EDGRTLSDYN	IQKESTLHLV	LRLRGGMQIF	VKTLTGKTIT	LEVEPSDTIE





Figure S3

