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767	SI Materials and Methods
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769	Plasmids and cloning. Plasmids, primers, and gene fragments are listed in Supplementary
770	Tables 4-6. All Ty1 nucleotide and amino acid information correspond to the Ty1H3 sequence
771	(GenBank M18706.1). All cloning was done with NEBuilder HiFi DNA Assembly Master Mix
772	(New England Biosciences cat. no. E2621). Sup35 fusion plasmids pBDG1691 (1434),
773	pSLBB027 (1134), and pSLBB028 (1258), driven by the CUP1 promoter, were kindly provided
774	by Y. Chernoff (Chernoff lab plasmid nomenclature in parentheses). Sup35N plasmids contain
775	Sup35 amino acids 1-123, and Sup35NM contains amino acids 1-250. The Gag_{PrLD} contains
776	Gag amino acids 66-136. Gag $_{PrLD}$ fusions to Sup35 were subcloned via EcoRI and XbaI digest
777	and PCR from pBDG598 using primers SLBP0045-7. Hemagglutinin epitope (HA) tags were
778	inserted via XbaI and SacII digest using ssDNA oligos AB42-HA (SLBP0088) or GagPrLD-HA
779	(SLBP0087) and HAtag-SacII (SLBP0086).
780	pBDG1647 was kindly provided by K. Pachulska-Wieczorek and is the mini-Ty1 <i>his3-</i> AI
781	plasmid (pJC994) which was constructed by deleting the Hpal-SnaBI fragment of pGTy1his3AI-
782	[Δ 1] (nucleotides 818-5463 of Ty1-H3) (6).
783	pBDG1781 contains pGTy1nt.241-5561 which is pEIB (" <u>e</u> nzyme- <u>i</u> n-a- <u>b</u> ox"). pEIB was
784	kindly provided by J. Strathern. It was created by deleting the BgIII-Ncol fragment which
785	removes the U3 polypurine tract (PPT) and 3' LTR, preventing reverse transcription of the Ty1
786	RNA produced from pEIB. The original pEIB provided by J. Strathern also contained a multiply
787	mutated primer binding sequence (PBS), disrupting complementarity to the intitiator $tRNA_i^{Met}$
788	which primes reverse transcription. pBDG1781 was corrected back to the original Ty1H3 PBS
789	sequence via XhoI and HpaI digest and PCR from pBDG598 using primers SLBP0116-7.
790	pBDG1781 derivatives were generated by replacing the Gag_{PrLD} with custom commercial
791	gene fragments (Integrated DNA Technologies (IDT) and Twist Bioscience) via Xhol and Hpal
792	digest. $PrLD\Delta$ was cloned using SLBG0030 and the chimeras were cloned using overlapping
793	gene fragments SLBG0024, SLBG0025 and a gene fragment encoding the foreign prion
794	domain. The A β_{1-42} sequence used is identical to that in pBDG1691 provided by Y. Chernoff and
795	contains a silent mutation at codon 3 (GAA>GAG) to remove an EcoRI site. Mouse PrP (UniProt
796	P04925) amino acid sequence was codon optimized for S. cerevisiae using the IDT codon
797	optimization tool.
798	pBDG1799 contains mature Gag (amino acids 1-401) driven by the GAL1 promoter
799	fused to GFP-(S65T) with a 7 amino acid linker (nt. CGGATCCCCGGGTTAATTAAC) followed
800	by the ADH1 terminator sequence, which was kindly provided by J. Curcio on plasmid BJC1066,

which is in a pRS415 backbone. The expression construct was subcloned to pRS413 (97) using
primers SLBP0221-2 and inserted via XhoI and SacII digest to create pBDG1799. Derivatives
were subcloned via XhoI and BbvCI digest and PCR from the corresponding chimeric pEIB
plasmids using primers SLBP0117 and SLBP0194.

pBDG598 is pGTy1mhis3-AI, described in (59), and is driven by the *GAL1* promoter and
is marked with the *his3*-AI retrotranscript indicator gene. Derivatives were subcloned via XhoI
and HpaI digest and PCR from the corresponding chimeric pEIB plasmids using primers
SLBP0116-7. All plasmids generated were verified by DNA sequencing.

809

810 SDD-AGE. Semi-denaturing detergent-agarose gel electrophoresis (SDD-AGE) was adapted 811 from published methods (53, 54). Yeast were subcultured from an overnight SC-Ura starter 812 culture into SC-Ura \pm 100 μ M CuSO₄ and grown overnight at 30 °C. Approximately 1 x 10⁸ cells 813 were lysed in 200 µL of ice cold Buffer A (50 mM Hepes, pH 7.5; 150 mM NaCl; 2.5 mM EDTA; 814 1% Triton X-100) with 400 µg/mL PMSF, 16 µg/mL each of aprotinin, leupeptin, pepstatin, and 6 815 mM DTT by vortexing with glass beads twice for 5 minutes at 4 °C. Cell debris was removed by 816 centrifugation for 2 minutes at 5000 rpm at 4 °C. 4X sample buffer (2X TAE; 20% glycerol; 4% 817 SDS: bromophenol blue) was added to the supernatant and run on a 13 cm 1.8% agarose gel 818 containing 1X TAE and 0.1% SDS at 50 V for several hours until the dye front reached 1 cm 819 from the bottom of the gel. Proteins were transferred to PVDF using 1X TBS by downward 820 capillary transfer overnight at room temperature. The membrane was immunoblotted by 821 standard immunoblotting.

822

Ty1his3-AI mobility assays. Ty1 retromobility events were detected using the his3-AI 823 824 retromobility indicator gene (59) by qualitative and quantitative assays (58). Qualitative assays 825 were printed from glucose plates onto galactose plates, grown for 48 h at 22 °C, then printed to 826 glucose plates lacking histidine and grown at 30 °C. Quantitative retromobility frequencies were 827 determined from galactose inductions diluted in water, plated on synthetic dropout media, and 828 colonies counted. All experiments were galactose-induced for 48 h at 22 °C. Data represent at 829 least 8 independent galactose inductions; p-values were calculated by two-sided Student's t-830 test. Determination of likely cDNA recombinants versus likely genomic insertions was conducted 831 on His⁺ papillae isolated after 48 hr galactose induction. The URA3-bearing plasmid was 832 counter-selected by growth on media containing 5-fluoroorotic acid. Cells that had lost the 833 *TRP1*-bearing plasmid after single colony passaging on YPD were determined by printing to 834 SC-Trp plates. Ura/Trp⁻ cells were tested for growth on SC-His. Loss of the His⁺ phenotype

835 concomitant with plasmid loss indicates a likely cDNA recombinant since the only Ty1 sequence 836 present for homologous recombination is on the plasmids. Retention of the His⁺ phenotype 837 indicates a likely genomic insertion. p-values were calculated by Fisher's exact test compared to 838 wildtype. 100 retromobility events was selected for feasibility of data collection after estimating 839 required sample size of 126 by a priori power analysis to detect increased recombination 840 frequency of a 10% effect size with 80% power compared with a 5% recombinant frequency in 841 wildtype piloted with 20 retromobility events. Power analysis for Fisher's exact test was 842 performed using G*Power 3.1 (98).

843

844 **Immunoblotting**. Total yeast protein was prepared by trichloroacetic acid (TCA) precipitation 845 using standard techniques (58, 96). Briefly, cells were broken by vortexing in the presence of 846 glass beads in 20% TCA and washed in 5% TCA. Proteins were separated on 8% or 10% SDS-847 PAGE gels. PVDF membranes were immunoblotted with antibodies at the following dilutions in 848 2.5% milk-TBST: mouse monoclonal anti-HA antibody clone 2-2.2.14 (Invitrogen cat. no. 26183) 849 (1:1000), mouse monoclonal anti-TY tag antibody clone BB2 (kindly provided by S. Hajduk) 850 (1:10,000) (99), mouse monoclonal anti-IN clone 8B11 (kindly provided by J. Boeke) (1:1,000), 851 rabbit polyclonal anti-RT (Boster Bio cat. no. DZ33991) (1:500), or mouse monoclonal anti-Pgk1 852 antibody clone 22C5D8 (Invitrogen cat. no. 459250) (1:1000). Immune complexes were 853 detected with WesternBright enhanced chemiluminescence (ECL) detection reagent (Advansta 854 cat. no. K-12049-D50). All imaging was done using a ChemiDoc MP (Bio-Rad). Precision Plus 855 Kaleidoscope protein standards (Bio-Rad cat. no. 1610395) were used to estimate molecular 856 weights.

857

Live cell fluorescence microscopy. Following 24 or 48 hr galactose induction, cells were imaged directly in growth media on positively charged slides (Globe Scientific cat. no. 1358W) using a Zeiss Axio Observer.Z1 epifluorescence microscope equipped with an AxioCam HSm camera and captured using AxioVision v4.8.2 software (Carl Zeiss Microscopy).

862

Sucrose gradient sedimentation. Following 48 hr galactose induction, a 100 mL culture was harvested, and cells were broken in 15 mM KCl, 10 mM HEPES- KOH, pH 7, 5 mM EDTA containing RNase inhibitor (100 U/mL), and protease inhibitors (16 µg/mL aprotinin, leupeptin, pepstatin A and 2 mM PMSF) in the presence of glass beads. Cell debris was removed by centrifuging the broken cells at 10,000 x g for 10 min at 4°C. Clarified whole cell extract in 500 µL of buffer was applied to a 7-47% continuous sucrose gradient and centrifuged using an

- 869 SW41 Ti rotor at 25,000 rpm (77,000 x g) for 3 hr at 4°C. After centrifugation, 9 x 1.2 mL
- 870 fractions were collected, and input and fractions were immunoblotted with TY-tag antibody to
- detect Gag. Densitometric analysis was performed using Image Lab (Bio-Rad, v. 6.0.1).
- 872

873 Transmission electron microscopy preparation and imaging of yeast cells. Following 48 hr 874 galactose induction, or 24 hr induction for GFP-expressing strains, cells were fixed with 4% 875 formaldehyde - 2.5% glutaraldehyde in 0.1 M sodium cacodylate pH 7.4 for 2 hr at 4 °C, washed 876 three times with cold PBS, once with cold 0.1 M KPO₄ (pH 6.5), and once with cold P solution 877 (1.2 M sorbitol, 0.1 M KPO₄ pH 6.5). Cells were spheroplasted in P solution with 25 mM DTT for 878 15 min at 37 °C using 400 µg/mL of Zymolyase-20T. Spheroplasts were gently washed three 879 times with cold PBS, stored in 0.1 M sodium cacodylate pH 7.4 at 4 °C, and transported to the 880 Robert P. Apkarian Integrated Electron Microscopy Core. Then the cells were washed in fresh 881 0.1 M cacodylate buffer and spun for 5 minutes at 8000 rpm on an Eppendorf Centrifuge 5430. 882 The cells were spun between each step and were processed in the microcentrifuge tubes in 883 which they were received. After two 0.1 M cacodylate buffer washes of ten minutes each, the 884 cells were post-fixed for an hour in 1% buffered osmium tetroxide. Following two ten-minute 885 washes in distilled water, the cells were en-bloc stained with 0.5% Uranyl Acetate in 0.1 M 886 sodium acetate for 30 minutes. The cells were washed in distilled water for 10 minutes, and 887 then dehydrated in an ascending ethanol series of 15-minute steps starting with 25% and 888 ending with 100% ethanol followed by two 15-minute steps of propylene oxide (PPO). The cells 889 were infiltrated with Eponate12 (Ted Pella, Inc.) epoxy resin in four steps: 1:2 of resin to PPO, 890 1:1 resin to PPO, 2:1 resin to PPO, and two changes of 100% resin. All resin steps were for 4 891 hours to overnight, followed by a final change of fresh 100% resin. The cells in resin were then 892 polymerized for two to three days at 60 °C. After release from the tubes, the sample blocks were 893 faced. Ultrathin sections of 70 to 80 nm were made using a Reichert Ultracut S and a Diatome 894 diamond knife. The sections were collected onto 200 mesh copper grids with Carbon stabilized 895 Formvar[™] support film then post-stained with 5% Uranyl Acetate and Reynold's Lead Citrate. 896 Images were acquired using an Ultrascan 1000, 2K x 2K CCD digital camera, on a JEOL 897 JEM1400 TEM operated at 80kV. Micrographs of 140-500 cells per strain were analyzed and 898 representative images were selected for publication. Particle diameters were measured single-899 blind using FIJI version 2.3.0 (100) by counting at least 60 particles from all cells visible in the 900 field of view (1-3 cells) in at least two separate micrographs. 901



Fig S1. PrLD predictions for Ty1. Schematic of the Ty1 Gag-Pol p199 polyprotein (*top*). Below are bioinformatic analyses aligned with the schematic above: yeast prion-like amino acid composition (PLAAC), predicted amyloidogenic regions (ArchCandy), predicted protein disorder (PrDOS), predicted disordered (green) and globular (grey) regions (GlobPlot2.3).



Fig S2. Prionogenic domains are intrinsically disordered in experimental and predicted protein structures. Schematics of protein domains (*top*) and experimentally determined protein structures with the methodology are noted (*bottom*). Amino acid coordinates are shown above cartoon representations of structures predicted by AlphaFold (orange) aligned to published structures (blue). Prion domains are colored in dark green, and their predicted disordered loops are shown in stick representation to aid visualization. PDB accession numbers and reported resolutions for published structures, and RMSD over the common residues between the published and predicted structures, are indicated.



Fig S3. Gag_{PrLD} nucleates a Sup35-based prion reporter. (*A and B*) Qualitative prionogenesis of Sup35 fusions; growth on SC-Ade indicates either a suppressor mutation or [*PSI*⁺] prionogenesis. Expression of Sup35 fusions were induced with 150 μ M CuSO₄. A representative image of at least 3 experiments is shown. (*C*) SDD-AGE analysis of Sup35NM-HA with and without Gag_{PrLD} fusion. Expression of Sup35 fusions were induced with 100 μ M CuSO₄. A representative image of at least 3 experiments is shown. (*C*) SDD-AGE analysis of Sup35NM-HA with and without Gag_{PrLD} fusion. Expression of Sup35 fusions were induced with 100 μ M CuSO₄. Monomers and high-molecular weight aggregates of chimeric proteins were detected with anti-HA antibody. A representative image of at least 3 experiments is shown. (*D*) Curing of Ade+ colonies by guanidine hydrochloride (GdHCl) of Sup35NM chimeras. One [*psi*] Sup35NM-A β fusion control strain is shown induced to [*PSI*⁺] and cured. Three independent inductions of a [*psi*] Sup35NM-GagPrLD fusion are shown induced to [*PSI*⁺] and cured. [*PSI*⁺] yeast cells are white on YPD and grow on SC-Ade while [*psi*⁻] and cured cells are red on YPD and do not grow on SC-Ade.



Fig S4. Gag chimeras likely disrupt Ty1 RNA functions and modestly increase cDNA recombination with plasmid-borne mini-Ty1*his*3-*AI.* (*A*) Qualitative retromobility of chimeric Gag constructs in a single pGTy1*his*3-*AI* plasmid. Growth on media lacking histidine indicates a retromobility event. A representative image of at least 3 replicates is shown. (*B*) Protein extracts prepared from galactose-induced yeast cells expressing the indicated Gag constructs in a single plasmid were immunoblotted for Gag. Pgk1 serves as a loading control. Migration of molecular weight standards is shown alongside the immunoblots. A representative image of at least 3 replicates is shown. (*C*) Schematic of two major retromobility pathways that lead to His⁺ cells detected in retromobility assays using Ty-less strains. cDNA recombination and genomic insertion can be differentiated by allowing for plasmid loss after a retromobility event and testing for the retention of growth on medium lacking histidine. (*D*) Table indicating the ratio of cDNA recombinants versus genomic insertions, *p*-values are compared to wildtype.

FIG. S5



Fig S5. Chimeric Gag-GFP after 48 hr galactose induction. (*A*) Live-cell yeast fluorescence microscopy of strains expressing chimeric Gag-GFP after 48 hr galactose induction. Normaski (DIC) and GFP channels are shown with cell outlines added to GFP channels based on DIC images. The strain labels are colored to match the most common foci observed. White arrows indicate cells with a single large focus. Scale bars represent 5 μ m. (*B*) Quantitation of categories of foci observed as a percentage. The multiple foci category includes cells with multiple large foci, one or more small foci, or a combination of both sizes. Exact cell counts are provided in Supplementary Table 2.



Fig S6. Thin-section TEM of Gag-GFP strains. Thin-section TEM of 24 hr galactose-induced cells expressing Gag-GFP chimeras. Representative cells are shown. Scale bars represent 500 nm.



Fig S7. VLP diameter of Gag-PrLD chimeras. Diameter measurements of particles in galactose-induced cells expressing Gag chimeras visualized by thin-section TEM. Each bar represents the mean diameter, displayed as points, and the error bar ± the standard deviation. The median diameter is noted above each bar, the number of particles measured is noted at the base of each bar. Particles from all strains are significantly smaller as calculated from a two-sided Student's *t*-test compared with WT.

Strain	Label	Retromobility	Std Dev	<i>p</i> -value ^a	Biological
		Frequency			replicates
DG4457	WT	6.46 x 10 ⁻⁵	2.72 x 10 ⁻⁵	Reference	20
DG4197	PrLD∆	8.75 x 10 ⁻⁹	2.47 x 10 ⁻⁸	4.75 x 10 ⁻⁷	8
DG4198	Sup35N	6.57 x 10 ⁻⁵	3.59 x 10⁻⁵	0.933	8
DG4201	Ure2	0	0	4.74 x 10 ⁻⁷	8
DG4242	PrP	1.22 x 10 ⁻⁶	5.59 x 10 ⁻⁷	6.51 x 10 ⁻⁷	8
DG4241	Αβ	0	0	4.74 x 10 ⁻⁷	8

909 Supplementary Table S1. Retromobility frequencies.

910 ^a Calculated by two-sided Student's *t*-test

Strain	Label	GFP	Diffuse	Multiple	Single large	Total
		negative		foci ^a	focus	cells
24 hr inductio	on					
DG4513	WT	32	0	307	2	341
DG4514	PrLD∆	48	293	50	0	391
DG4515	Sup35N	24	4	276	5	309
DG4516	Ure2	38	320	7	0	365
DG4517	PrP	44	45	196	48	333
DG4518	Αβ	65	23	127	89	304
48 hr induction						
DG4513	WT	108	0	135	1	244
DG4514	PrLD∆	83	159	58	1	301

911 Supplementary Table S2. Gag-GFP chimera fluorescent microscopy cell counts.

912 ^a This category includes multiple large foci, one or more small foci, or a combination of both sizes.

Strain	Genotype	Plasmids	Source
GT409	Saccharomyces cerevisiae MATa ade1-14 his3		(53)
	leu2-3,112 lys2 trp1 ura3-52 [psrˈ pin⁻]		
SLBY294	GT409	SLBB027	This study
SLBY286	GT409	SLBB021	This study
SLBY295	GT409	SLBB028	This study
SLBY287	GT409	SLBB022	This study
SLBY285	GT409	SLBB020	This study
DG4218	GT409	BDG1691	This study
DG4219	GT409	BDG1701	This study
DG3582	Saccharomyces paradoxus MAT $lpha$ gal3		(58)
	his3-∆200hisG trp1-1* ura3 Ty-less		
DG4457	DG3582	BDG1647, BDG1781	This study
DG4197	DG3582	BDG1647, BDG1680	This study
DG4198	DG3582	BDG1647, BDG1681	This study
DG4201	DG3582	BDG1647, BDG1684	This study
DG4241	DG3582	BDG1647, BDG1712	This study
DG4242	DG3582	BDG1647, BDG1713	This study
DG4441	DG3582	BDG673, BDG674	This study
DG4156	DG3582	BDG598	This study
DG4447	DG3582	SLBB050	This study
DG4448	DG3582	SLBB051	This study
DG4449	DG3582	SLBB052	This study
DG4513	DG3582	BDG1799	This study
DG4514	DG3582	BDG1800	This study
DG4515	DG3582	BDG1801	This study
DG4516	DG3582	BDG1802	This study
DG4517	DG3582	BDG1803	This study
DG4518	DG3582	BDG1804	This study

913 Supplementary Table S3. Yeast strains used in this study.

915 Supplementary Table S4. Plasmids used in this study.

Plasmid	Description	Markers	Source
pBDG598	pGTy1 <i>his3-Al</i>	URA3/2µ	(59)
pSLBB050	pBDG598- <i>PrLD∆</i>	URA3/2µ	This study
pSLBB051	pBDG598-Sup35N ₂₋₁₂₃	URA3/2µ	This study
pSLBB052	pBDG598-PrP ₉₀₋₁₅₉	URA3/2µ	This study
pBDG1647	pGTy1 <i>hisAI-</i> ∆nt818-5463	URA3/2µ	(6)
pBDG1781	pGTy1nt.241-5561	$TRP1/2\mu$	This study
pBDG1680	pBDG1781- <i>PrLD∆</i>	$TRP1/2\mu$	This study
pBDG1681	pBDG1781-Sup35N ₂₋₁₂₃	$TRP1/2\mu$	This study
pBDG1684	pBDG1781-Ure2 ₁₇₋₇₆	$TRP1/2\mu$	This study
pBDG1712	pBDG1781-Aβ ₁₋₄₂	$TRP1/2\mu$	This study
pBDG1713	pBDG1781-PrP ₉₀₋₁₅₉	$TRP1/2\mu$	This study
pBDG673	pRS424	$TRP1/2\mu$	(97)
pBDG674	pRS426	URA3/2µ	(97)
pBDG1691	pCUP1-SUP35NM-Aβ ₁₋₄₂	URA3/CEN	(53)
pBDG1701	pCUP1-SUP35NM-Gag _{PrLD}	URA3/CEN	This study
pSLBB020	pCUP1-SUP35NM-Aβ ₁₋₄₂ -HA	URA3/CEN	This study
pSLBB021	pCUP1-SUP35NM-Gag _{PrLD} -HA	URA3/CEN	This study
pSLBB022	pCUP1-SUP35N-Gag _{PrLD} -HA	URA3/CEN	This study
pSLBB027	pCUP1-SUP35NM-HA	URA3/CEN	а
pSLBB028	pCUP1-SUP35N-HA	URA3/CEN	(53)
pBDG1799	pGAL-Gag ₁₋₄₀₁ -GFP	HIS3/CEN	This study
pBDG1800	pBDG1799- <i>PrLD∆</i>	HIS3/CEN	This study
pBDG1801	pBDG1799-Sup35N ₂₋₁₂₃	HIS3/CEN	This study
pBDG1802	pBDG1799-Ure217-76	HIS3/CEN	This study
pBDG1803	pBDG1799-Aβ ₁₋₄₂	HIS3/CEN	This study
pBDG1804	pBDG1799-PrP ₉₀₋₁₅₉	HIS3/CEN	This study

916 ^a Kindly provided by Y. Chernoff.

917 Supplementary Table S5. Primers used in this study.

Construct	Description	Oligos (5' - 3')
SLBP0045	SupM-PrLDF	GAAGTGGATGACGAAGTTGAATTCAACCCCCATCATGCCTCTCC
SLBP0046	SupN-PrLDF	CAACCACAGTCTCAAGGTGAATTCAACCCCCATCATGCCTCTCC
SLBP0047	Sup-PrLDR	CACCGCGGTGGCGGCCGCTCTAGATTATGATGATGGATACTGCGG
SLBP0086	HAtag-SacII	TACCCATACGACGTACCAGATTACGCTTGACCGCGGTGGAGCTCCAA
SLBP0087	GagPrLD-HA	CAGTATCCATCATACCCATACGACGTA
SLBP0088	AB42-HA	GGTGTTGTCATAGCGTACCCATACGACGTA
SLBP0194	Ty1 779 Rev	CATATCAGAGTCCGCTGAGG
SLBP0116	Ty1 835 Rev	GGAAAGTCATTAGGTGAGG
SLBP0117	GTy1 Xho Fwd	GTATTACTTCTTATTCCTCGAGG
SLBP0221	pRS Fwd	TTGGGTACCGGGCCC
SLBP0222	pRS Rev	AAAGCTGGAGCTCCACC

919 Supplementary Table S6. Gene fragments used in this study.

Construct	Description	Oligos (5' - 3')
SLBG0024	Ty1 Xhol PrLD	ACTTCTTATTCCTCTACCGCCTCGAGGAGAACTTCTAGTATATTCTGTATACCT
		AATATTATAGCCTTTATCAACAATGGAATCCCAACAATTATCTCAACATTCACC
		CAATTCTCATGGTAGCGCCTGTGCTTCGGTTACTTCTAAGGAAGTCCACAAAA
		TCAAGATCCGTTAGACGTTTCAGCTTCCAAAACAGAAGAATGTGAGAAGGCTTC
		CACTAAGGCTAACTCTCAACAGACAACAACACCTGCTTCATCAGCTGTTCCAGA
		G
SLBG0025	Ty1 702-840	GTTGGAACGCCTCTGAGCACTCCATCACCTGAGTCAGGTAATACATTTACTGAT
	-	TCATCCTCAGCGGACTCTGATATGACATCCACTAAAAAATATGTCAGACCACCA
		CCAATGTTAACCTCACCTAATGACTTTCCAA
SI BG0026	Tv1 Sup35N	ΔΓΑΔΓΑΓΓΤΓΩΤΓΑΤΓΑΓΤΤΓΓΑΓΑΓΤΟΓΑΓΑΤΤΓΑΔΑΓΓΑΔΑΓ
GLDG0020		
		AGATACCAAGGTTATCAAGCTTACAATGCTCAAGCCCAACCTGCAGGTGGGTAC
		TACCAAAATTACCAAGGTTATTCTGGGTACCAACAAGGTGGCTATCAACAGTAC
		AATCCCGACGCCGGTTACCAGCAACAGTATAATCCTCAAGGAGGCTATCAACAG
		TACAATCCTCAAGGCGGTTATCAGCAGCAATTCAATCCACAAGGTGGCCGTGGA
		AATTACAAAAACTTCAACTACAATAACAATTTGCAAGGATATCAAGCTGGTTTC
		CAACCACAGTCTCAAGGTGTTGGAACGCCTCTGAGCACTCCATCACCT
SLBG0029	Tv1 Ure2	ACAACACCTGCTTCATCAGCTGTTCCAGAGCGTCAAGTAAACATAGGAAACAGG
	ÿ	AACAGTAATACAACCACCGATCAAAGTAATATAAATTTTGAATTTTCAACAGGT
		GTAAATAATAATAATAATAACAATAGCAGTAGTAATAACAATAATGTTCAAAAC
		AATAACAGCGGCCGCAATGGTAGCCAAAATAATGATAACGAGAATAATGTTGGA
		ACGCCTCTGAGCACTCCATCACCT
SLBG0030	Tv1 PrLD∆	ACTTCTTATTCCTCTACCGCCTCGAGGAGAACTTCTAGTATATTCTGTATACCT
	· , · · · · · · · · · · · · · · · · · · ·	AATATTATAGCCTTTATCAACAATGGAATCCCAACAATTATCTCAACATTCACC
		CAATTCTCATGGTAGCGCCTGTGCTTCGGTTACTTCTAAGGAAGTCCACACAAA
		TCAAGATCCGTTAGACGTTTCAGCTTCCAAAACAGAAGAATGTGAGAAGGCTTC
		CACTAAGGCTAACTCTCAACAGACAACAACACCTGCTTCATCAGCTGTTCCAGA
		GGTTGGAACGCCTCTGAGCACTCCATCACCTGAGTCAGGTAATACATTTACTGA
		TTCATCCTCAGCGGACTCTGATATGACATCCACTAAAAAATATGTCAGACCACC
		ΑCCAATGTTAACCTCACCTAATGACTTTCCAA

SLBG0035	Ty1 Abeta	CTTCATCAGCTGTTCCAGAGGATGCAGAGTTCCGACATGACTCAGGATATGAAG TTCATCATCAAAAATTGGTGTTCTTTGCAGAAGATGTGGGTTCAAACAAA
SLBG0036	Ty1 PrP	CTTCATCAGCTGTTCCAGAGCAGGGAGGAGGTACACACAATCAGTGGAATAAAC CAAGCAAACCGAAGACGAACTTGAAACACGTCGCCGGCGCCGCGGCTGCAGGGG CGGTTGTTGGAGGACTTGGTGGGTATATGCTGGGCAGTGCTATGAGCCGTCCCA TGATCCATTTTGGTAACGATTGGGAAGACCGTTATTATAGGGAGAACATGTATA GGTACCCTAATCAGGTTGGAACGCCTCTGAGCAC