Core-Directed Protein Design. II. Rescue of a Multiply Mutated and Destabilized Variant of Ubiquitin, Michael D. Finucane and Derek N. Woolfson*, Volume 38, Number 36, September 7, 1999, pages 11613—11623.

Page 11616. Table 1 should have appeared as follows. Table 1: Codon Usage in and Amino Acid Composition of the Ubiquitin Libraries before and after Selection $\mathbf{T_{M}}^{f}$ Translated Vol. Vc #d Sequence Positiona $(Å^3)$ (°C) sequence^b 3 5 13 15 17 26 30 1 Before Selection GCGCTCTTGCTCCTGTTGTTGCTCALLL**L**LLL 740 TTGCTCCTGALLL**L**LLL 740 GCG CTCTTGTTGCTC740 GCGCTCTTGCTCCTGTTGTTGCTCALLLLLLL 7 740 GCG CTCTTGCTCCTG TTG TTGCTCALLLLLLL CTCTTG CTCCTGTTG TTGALLILLI. 740 GCGCTC740 GCG CTCTTGCTCCTG TTG TTGCTCALLLLLLL 7 GCG CTCTTGCTCCTG TTGTTGCTC ALLLLLLL 740 GCGCTCTTGCTCCTGTTGTTGCTC $\mathtt{ALLL} \boldsymbol{L} \boldsymbol{L} \boldsymbol{L} \boldsymbol{L} \boldsymbol{L} \boldsymbol{L} \boldsymbol{L}$ 740 GCGCTCTTGCTCCTGTTGTTGCTCALLL**L**LLL 740 7 GCGCTCTTGCTCCTGTTGTTGCTCALLL**L**LLL 740 GCGCTCTTGCTCCTGTTGCTCALLL**L**LLL 740 TTG CTCTTGCTCCTG740 GCGTTGTTGCTCALLL**L**LLL GCGCTCCTCCTG TTGTTGATC CTCALLLLLLIL CTCTTGCTCCTGTTGATG 746 GCGATG ALLLLLLMM CTC7 GCGTTGATG GTC GTG TTGCTCALLMV**V**LL 691 GCGCTCTTGGTC ATC ATC ATC GTG ALLVIIIV 691 8 GCGTTG GTG TTC GTC ATC GTC ATG AL**v**fVI**v**M 701 6 TTC GTG ATG TTC TTG TTC ATG ATC FVMF**L**FM**I** 902 6 ATC GTG ATG TTGTTC 812 8 TTC GTC GTG IVFMVLFV ATC GTC TTC GTC GTC TTC ATG TTG IVFVVFML 812 8 ATC GTG TTGATG TTC TTC ATG GTC IVLMFFMV 841 8 TTG TTC TTGATC GTC ATC ATG TTC LLF IVIME 865 8 7 TTG ATG ATC ATG GAG TTGTTGLMIMELLL CTCATG TTG ATC ATG ATC TTC TTGCTC**M**LIMIFLL 859 TCG GTC TTGTTC GTC TTGTTGCTCSVLFVLLL V*I*LLMLLV 730 768 87 TTG TTGGTG GTG ATC TTG ATG ATG GTG TTC ATG ATG VMMVFMMM 814 8 GTC ATG ATG 7 GTC TTGGTG ATG ATC GTG TTG VVLVMI**V**L 716 GTG VVML*lv*ll 741 6 GTC ATG TTG TIG GTG TTGCTC GTG VV**V**LV**V**LL GTG GTG GTC TTGGTG After Selection 801 TTC TTGGTC TTG GTC FILILVIN ATC ATC TTG 4 54.5 TTC ATC GTC TTG TTC GTC GTG GTG FIVLFVV 783 4 1 TTC TTGGTG TTC GTG GTC GTC ATC FLVFVVVI 783 4 TTC GTC ATC TTC TTG GTG TTGCTCFVIF*LV*LL 835 6 TTC GTC GTG TTC TTC ATG TTGATC FVVFFML I 873 б TTC GTC GTG TTG GTG GTC TTGATC FVVLVVLI 748 5 3 54.5 ATC ATC GTG TTG TTC TTG GTC TTGATC I*IV*LFLL*I* 828 5 3 GTG TTG GTC IV**V**L**LVVI** 714 GTG TTG ATC 3 GTC ATC 776 TTG ATC GTC TTC ATC GTC LIVFIVVI 774 5 TTG GTC TTC GTC TTGCTCL*IV*FV*V*LL ATC GTG ATG 832 8 4 50 TIG ATC TTC GTG TTG ATG LLIFVMLM TTG TTG GTG GTG ATC TTC ATG TTGLV**VI**FML**I** 804 ATC 3 ATG GTG ATC TTG ATC GTC GTG ATC MIILIVVI **MIV**FFILI 866 4 ATG ATC GTC TTC TTC ATC TTGATC ATG ATC TTC TTG GTG ATC GTC *miv*f*lv*iv GTC 3 2 2 751 ATG ATC GTC TTC TTG GTG GTG GTC **miv**f**lvv**v ATG ATC GTC TTG TTC GTG GTG ATC *MIV*LF*VVI* 778 ATG ATC GTG TIG TTG GTC TTGCTC*MIVLLV*LL 768 3 ATG GTG GTG ATC TTC GTC TTGATC MVVIFVLI 778 3 ATG GTG GTC ATC ATC GTG ATC ATC MVVIIVII 745 3 ATG GTG GTG ATC ATC GTC TTGATC MVVIIVLI 744 3 ATG GTG GTC ATC TTG GTG TTGCTC742 3 5 48 M/VILVLLe GTG GTG ATC TTG GTG TTGCTC742 3 ATG MVVILVLLe ATG GTG GTC ATC CTGGTGTTGCTC742 3 MVVILVLL6 TTG742 3 ATG GTG ATC TTG GTG CTC<u>GTC</u> **M**V**VILV**LLe ATG GTG GTG ATC GTG ATC TTGCTCMVVIVILL 743 6

GTC

TTG

GTC

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ATC

 $M \lor V \lor LVVI$

VMLFFLLL

VVL*IL*FVV

VV**V**LFML**.**

VVVLFLII

2

8

5

6

690

863

748

777

775

7

8

ATG

GTC

GTG

GTG

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ATG

GTG

GTC

GTC

GTG

TTG

TTG

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TTC

 $[^]a$ Codons in italic type are identical to those found in the parental, AL $_7$, mutant. b Residue types in bold, italic type are identical to wild-type mammalian ubiquitin residues. c Δ is the number of residues in the sequence that are different from the WT sequence. d Clones chosen for expression and characterization. e Identical protein sequences; underscores denote different codon usage in two of the DNA sequences. f Midpoint of thermal denaturation curves as determined by CD spectroscopy; error of ± 1 $^{\circ}$ C.