

Table S2. Intermolecular Lys-Lys crosslinks. Related to step 47.

Peptide A	Peptide B	<i>In cellulo</i> Cross-linking	<i>In vitro</i> Cross-linking
AIMP1 – RARS1			
IEK ₁₂₉ K	LMDLLGEGLK ₄₇₁ R	-	+
AIMP2 – KARS1			
PMYQVK ₇ PYHGGGAPL R	SK ₂₄₉ ITYIR	-	+
SY ₃₅ GPAPGAGHVQEEES NLSLQALESR	SK ₂₄₉ ITYIR	-	+
QDDILK ₆₄ R	SK ₂₄₉ ITYIR	-	+
AIMP2 – QARS1			
QDDILK ₆₄ R	LGYFSVDPDASHQGGK ₇₅₉ LVFN R	-	+
AIMP3 – DARS1			
EK ₁₃₈ YLNVSER	EAGVEMGDEDDLSTPNEK ₃₇ 4LLGHLVK	+	+
DARS1 – MARS1			
ALHHGIDLEK ₄₅₁ IK	IK ₇₂₉ GSEADR	-	+
DARS1 – QARS1			
SQEK ₁₃ PR	FDDTNPEK ₃₀₉ EEAK	-	+
EPRS – QARS1			
FDDTNPEK ₂₄₃ EKEDFEK	MK ₄₀₅ LVMEDGK	+	-
AYVDDTPAEQMK ₃₀₀ AE R	MK ₄₀₅ LVMEDGK	+	+
LNLNNTVLSK ₄₃₅ R	MK ₄₀₅ LVMEDGK	+	-
IARS1 – LARS1			
TLK ₃₈₂ EQGR	RVPVLGK ₁₁₃₃ EYTEK	-	+
FGNWLK ₄₅₀ DAR	RVPVLGK ₁₁₃₃ EYTEK	+	+
IARS1 – MARS1			
IQK ₉₉₆ LR	IK ₇₂₉ GSEADR	-	+

IARS1 – RARS1			
TLK ₃₈₂ EQGR	K ₆₀ SLQAER	-	+
KVTLSTDK ₈₈₅ NK	LNDYIFSFDK ₅₂₂ MLDDRGNT AAYLLYAFTR	+	-
LARS1 – RARS1			
LMK ₁₁₀₂ MNR	LMDLLGEGLK ₄₇₁ RSMDK	+	+
QARS1 – RARS1			
LGYFSVDPDASHQGK ₇₅₉ L VFNR	LLQQEEEIK ₂₀ SLTAEIDR	-	+
ETLK ₂₅ NSALSAQLR	LANIDEEMLQK ₅₅₇ AAR	-	+