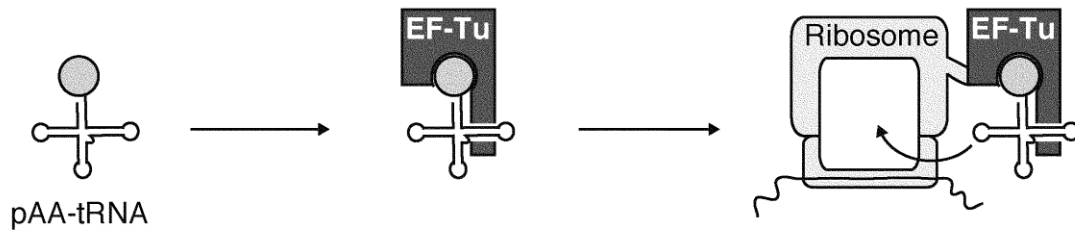


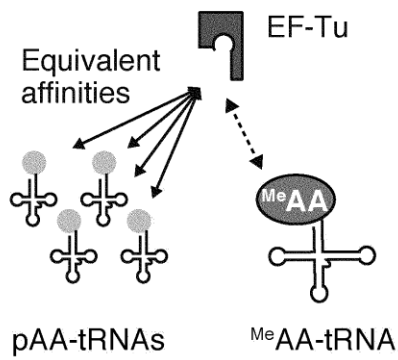
Figures

[Fig.1]

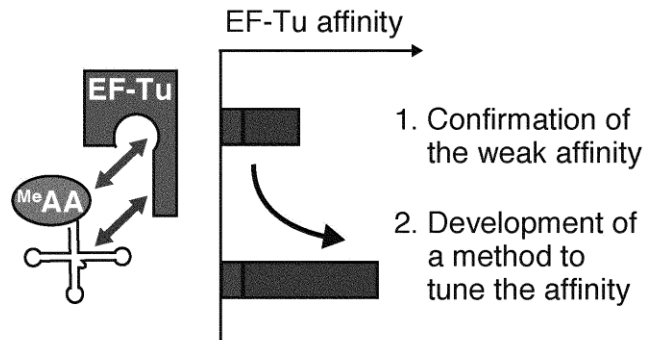
a



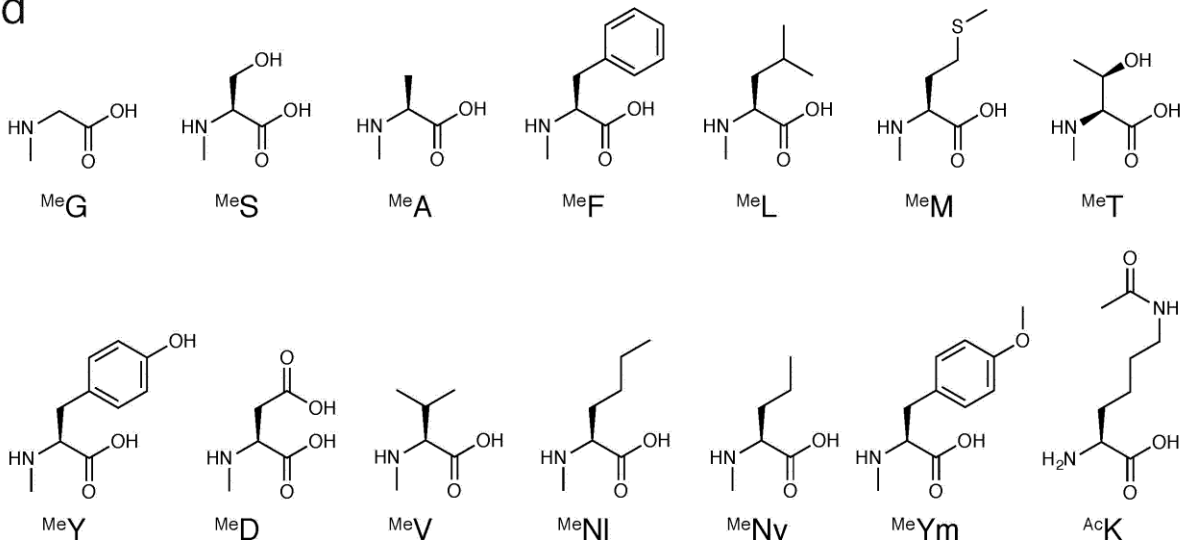
b



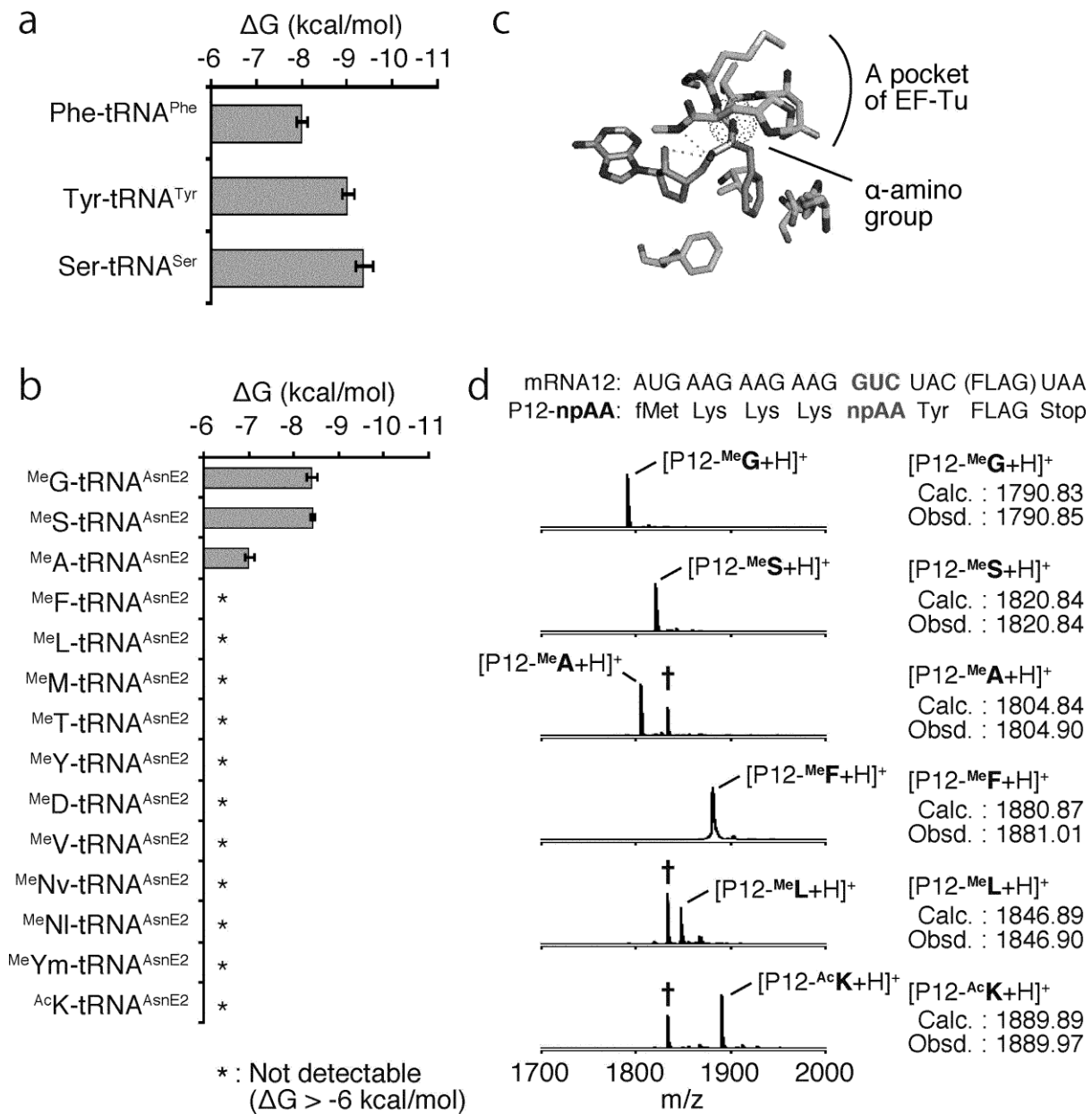
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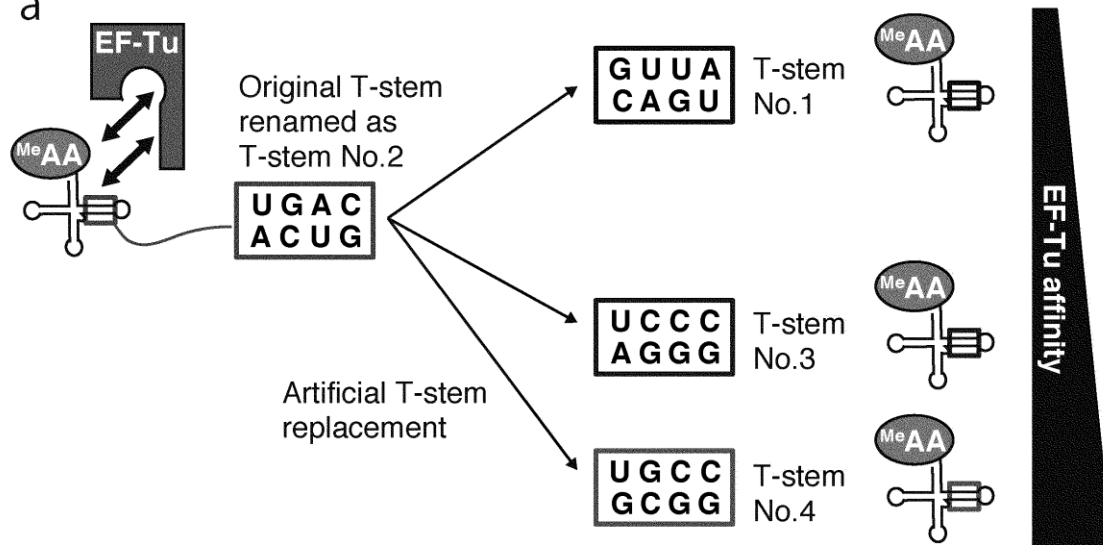


d

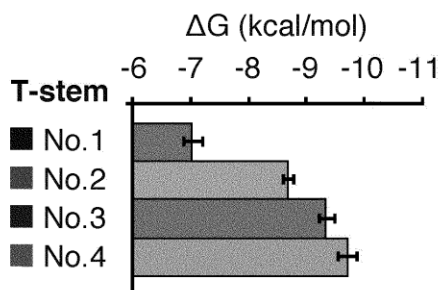
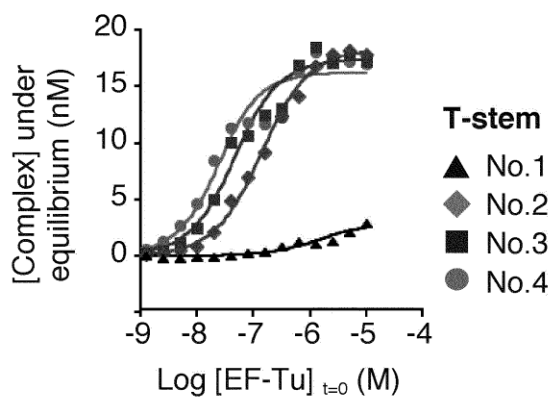
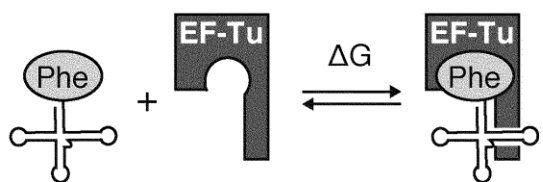


[Fig.2]

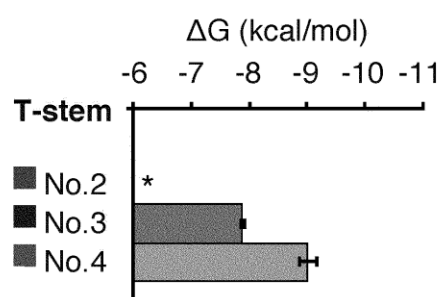
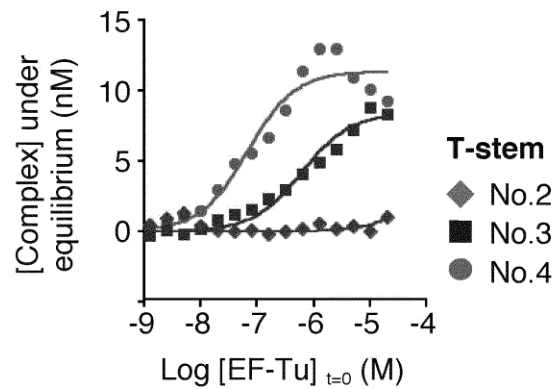
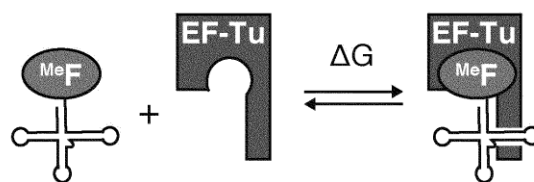


[Fig.3]
a

b



c

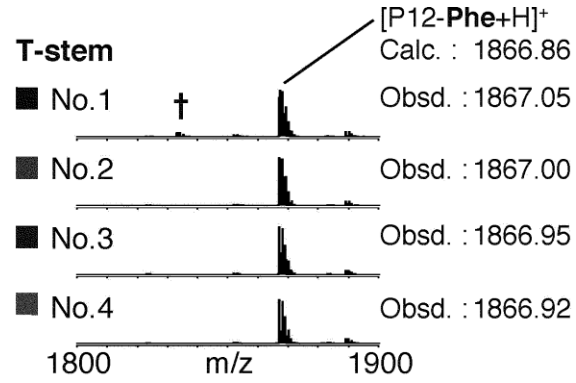


* : Not detectable
($\Delta G > -6$ kcal/mol)

[Fig.4]

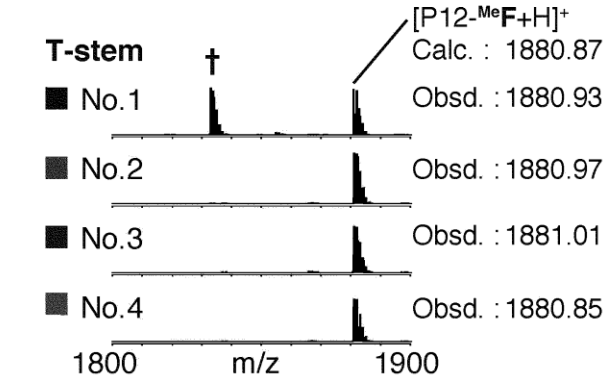
a

mRNA12: AUG AAG AAG AAG GUC UAC (FLAG) UAA
 P12-Phe: fMet Lys Lys Lys Phe Tyr FLAG Stop

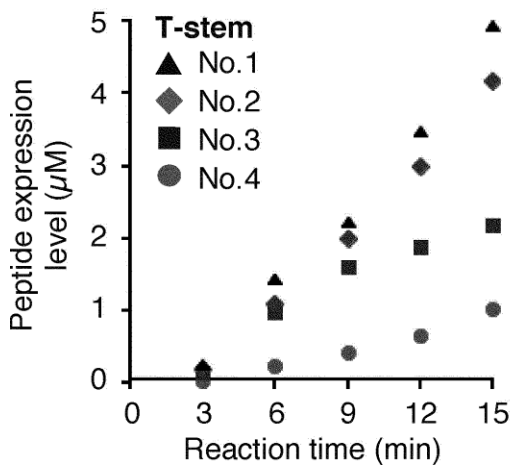
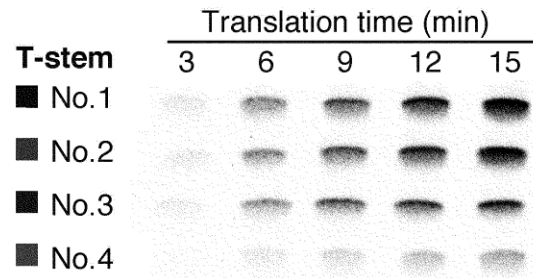


b

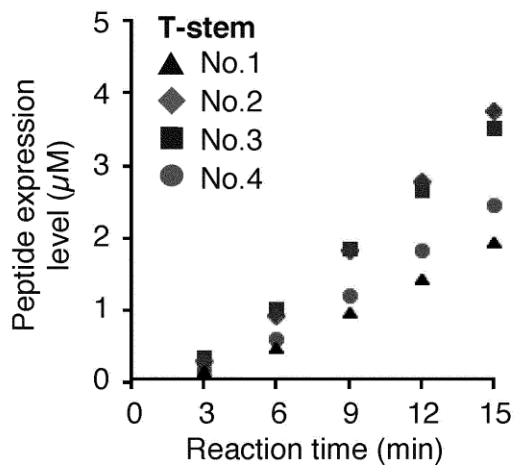
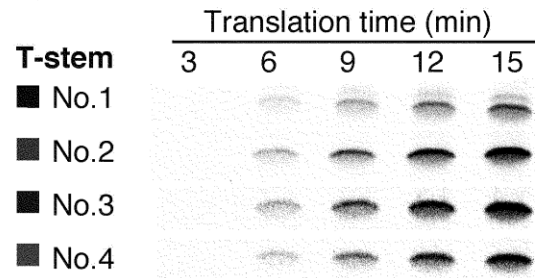
mRNA12: AUG AAG AAG AAG GUC UAC (FLAG) UAA
 P12-MeF: fMet Lys Lys Lys MeF Tyr FLAG Stop



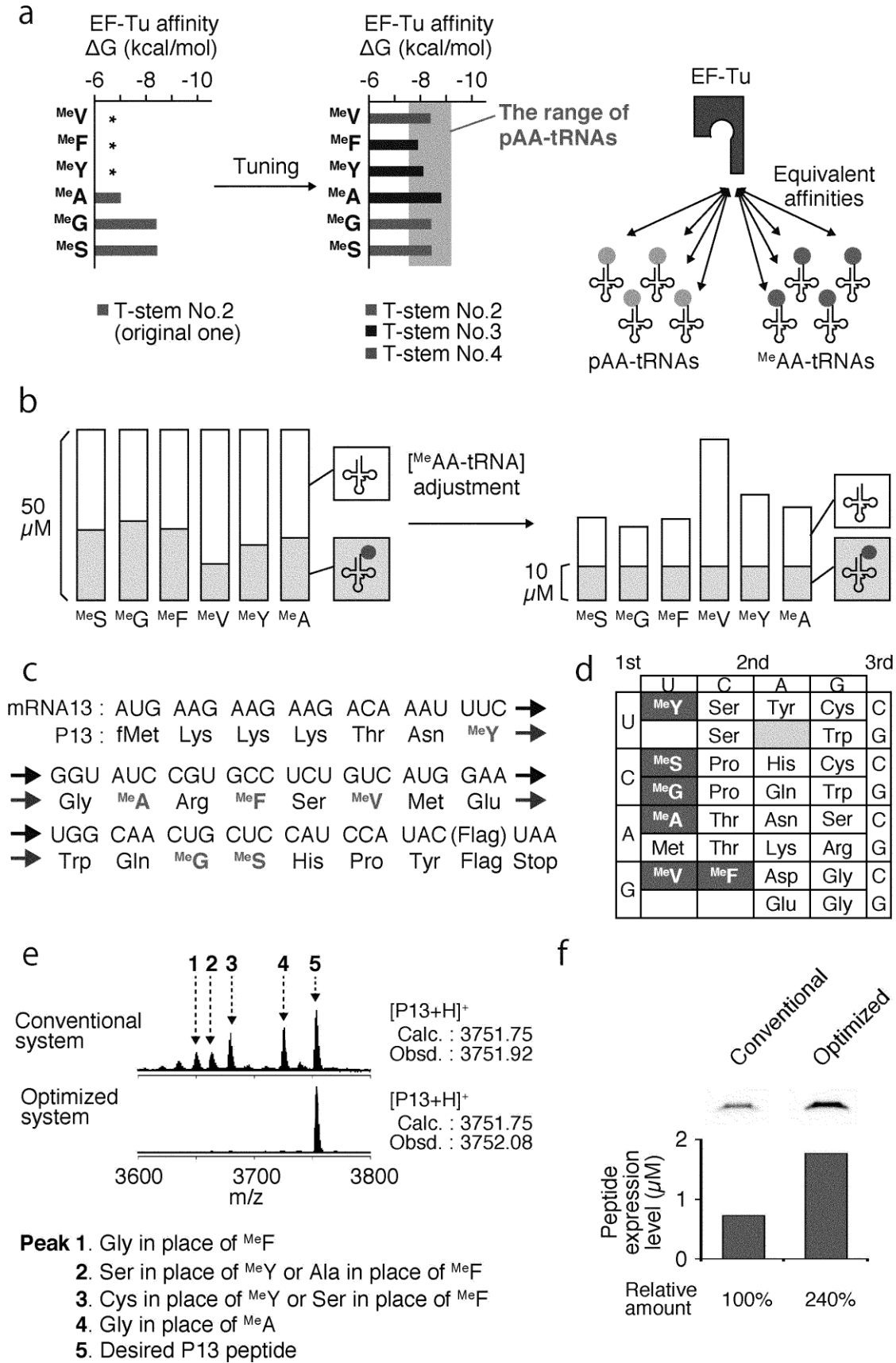
c



d



[Fig.5]



[Fig.6]

a

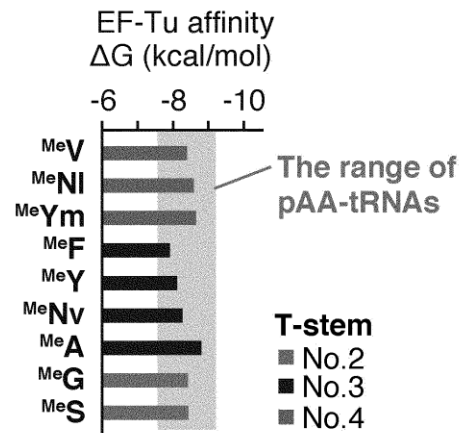
mRNA14 : AUG AAG AAG AAG CUC CAU AUG UUG GUC ACA GAA CUG UCU →
 P14 : fMet Lys Lys Lys ^{Me}S His Met ^{Me}G ^{Me}V Thr Glu ^{Me}NI Ser →
 → AUC GCG CAA AAU UUC GGU UGG GUG CGU GCC CCA (Flag) UAA
 → ^{Me}Y ^{Me}A Gln Asn ^{Me}Ym Gly Trp ^{Me}Nv Arg ^{Me}F Pro Flag Stop

b

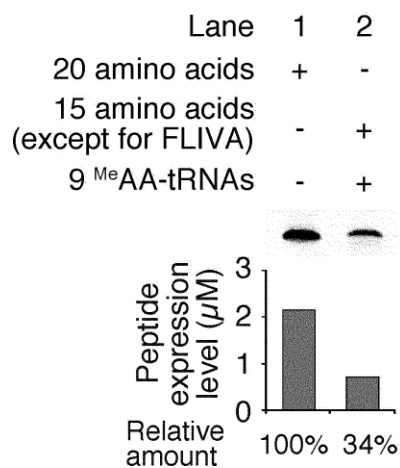
	1st	2nd	3rd	
	U	C	A	G
U	^{Me} Ym	Ser	Tyr	Cys
	^{Me} G	Ser		Trp
C	^{Me} S	Pro	His	Arg
	^{Me} NI	Pro	Gln	Arg
A	^{Me} Y	Thr	Asn	Ser
	Met	Thr	Lys	Arg
G	^{Me} V	^{Me} F	Asp	Gly
	^{Me} Nv	^{Me} A	Glu	Gly

9 ^{Me}AA + 15 pAA

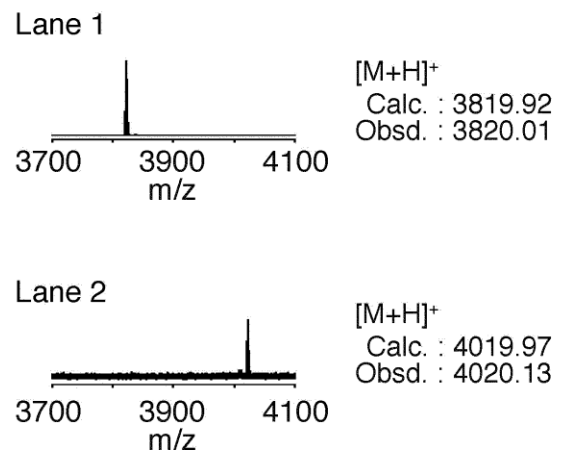
c



d



e



[Fig.7]

mRNA: AUG AAG AAG AAG **GUC** UAC (FLAG) UAA
 P12-AA: fMet Lys Lys Lys **AA** Tyr FLAG Stop

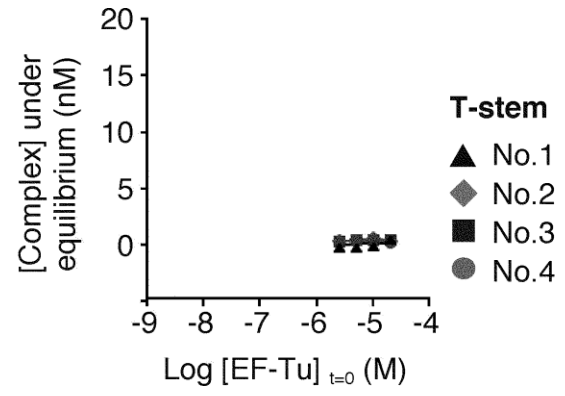
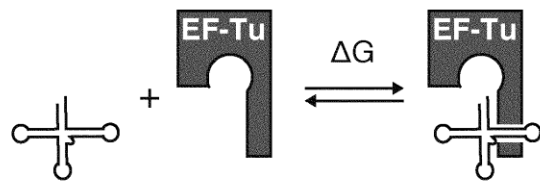
Met, Lys, Tyr + + + +
 Val + - - -
 Leu - - + -
 Ile - - - +



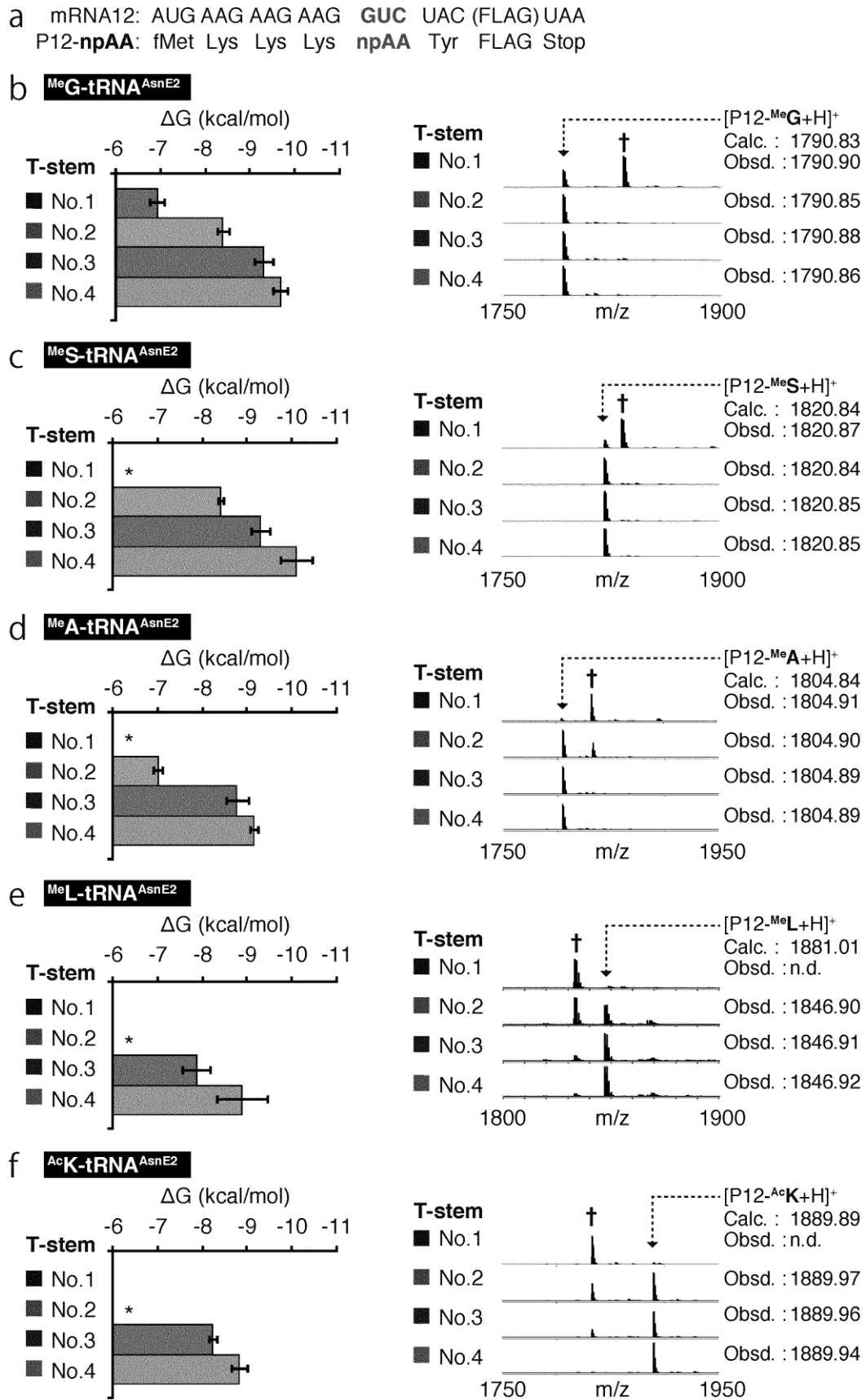
1st 2nd 3rd

	1st	2nd	3rd	
	U	C	A	G
U	Phe	Ser	Tyr	Cys
	Leu	Ser		Trp
C	Leu	Pro	His	Arg
	Leu	Pro	Gln	Arg
A	Ile	Thr	Asn	Ser
	Met	Thr	Lys	Arg
G		Ala	Asp	Gly
	Val	Ala	Glu	Gly

[Fig.8]



[Fig.9]



[Fig.10]

