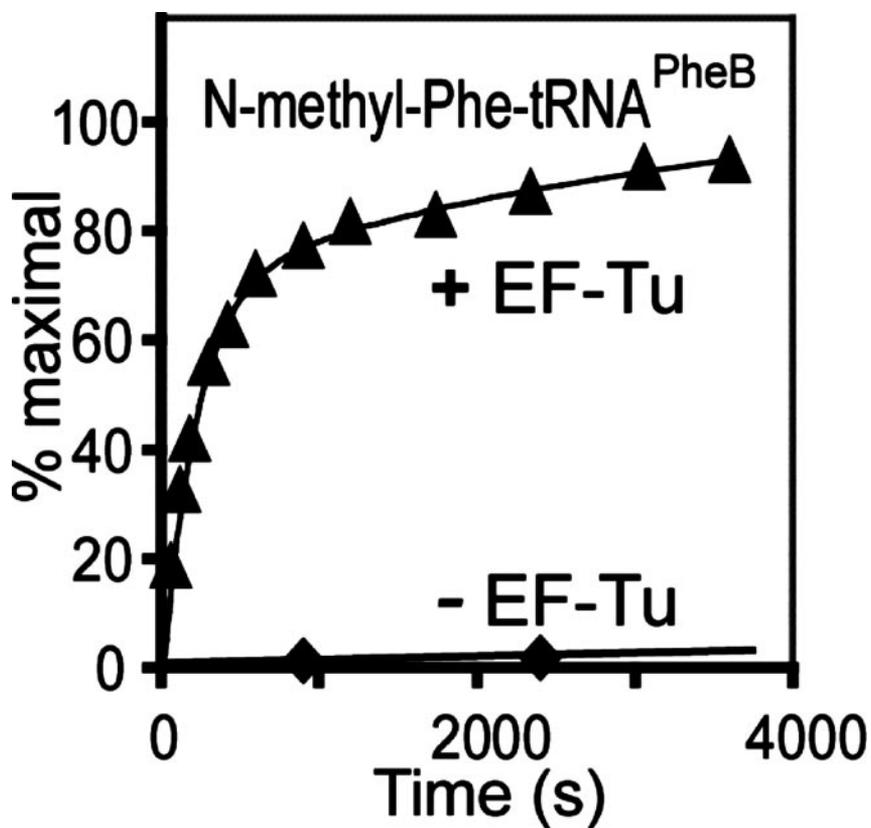


# Supporting Information

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**Fig. S1.** Dependence on EF-Tu of dipeptide synthesis from fMet-tRNA<sup>fMet</sup> and N-methyl-Phe-tRNA<sup>Phe</sup> at Phe codon UUC. Diamonds, kinetics of dipeptide synthesis in the absence of EF-Tu. Triangles, kinetics of dipeptide synthesis in the presence of EF-Tu (taken from Fig. 2D for comparative purposes).





**Table S2. Complete sequences of mRNAs**

mRNA	Sequence
mMF <sub>UUC</sub> T1	gggaaucgggcccuuguuaacaauaaggagguauauc AUG UUC ACG AUU uaaucgagaaaaaaaaaaaaaaaaaaaa
mMF <sub>UUU</sub> T1	gggaaucgggcccuuguuaacaauaaggagguauauc AUG UUU ACG AUU uaaucgagaaaaaaaaaaaaaaaaaaaa
mMP <sub>CCA</sub> F	gggaaucgggcccuuguuaacaauaaggagguauauc AUG CCA UUC uaaucgagaaaaaaaaaaaaaaaaaaaaagcg
mMP <sub>CCC</sub> F	gggaaucgggcccuuguuaacaauaaggagguauauc AUG CCC UUC uaaucgagaaaaaaaaaaaaaaaaaaaaagcg
mMP <sub>CCG</sub> F	gggaaucgggcccuuguuaacaauaaggagguauauc AUG CCG UUC uaaucgagaaaaaaaaaaaaaaaaaaaaagcg
mMP <sub>CCU</sub> F	gggaaucgggcccuuguuaacaauaaggagguauauc AUG CCU UUC uaaucgagaaaaaaaaaaaaaaaaaaaaagcg

All mRNAs were prepared by transcription with T7 RNA polymerase, purified by binding to an oligo(dT) column, and have the same upstream sequence including a strong Shine–Dalgarno ribosome-binding sequence (uaaggaggu). Sense codons are in capitals in the sequences. Translated elongator codons are in subscripts in the mRNA names.