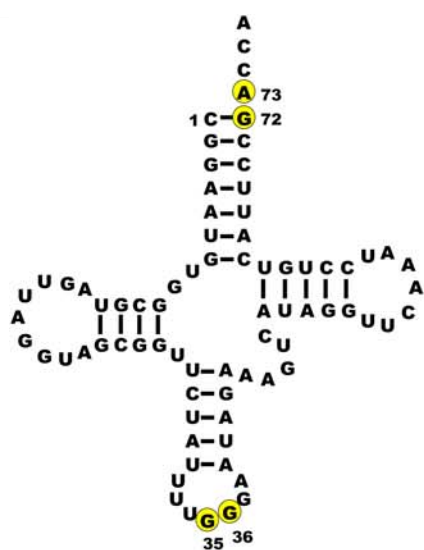
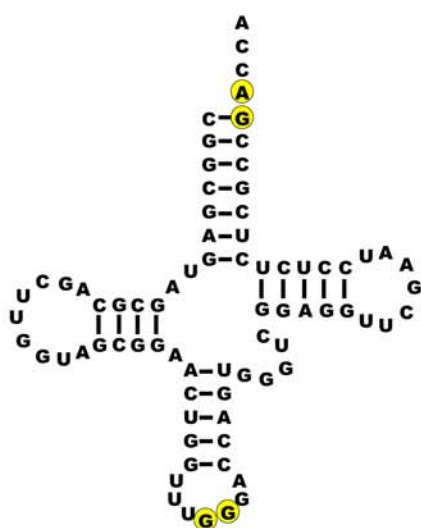
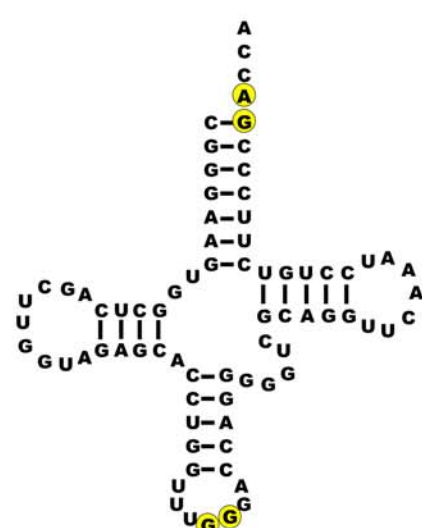
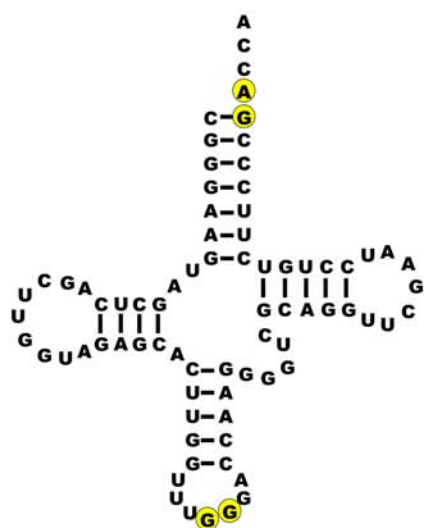
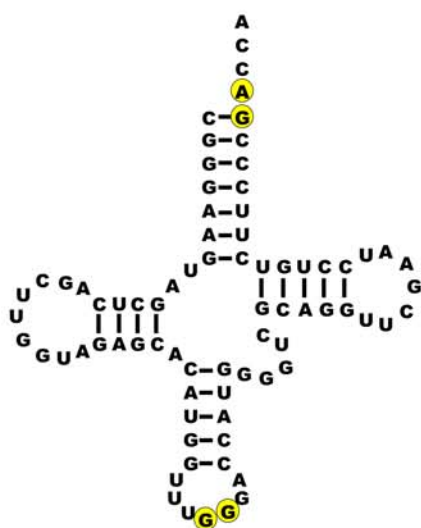
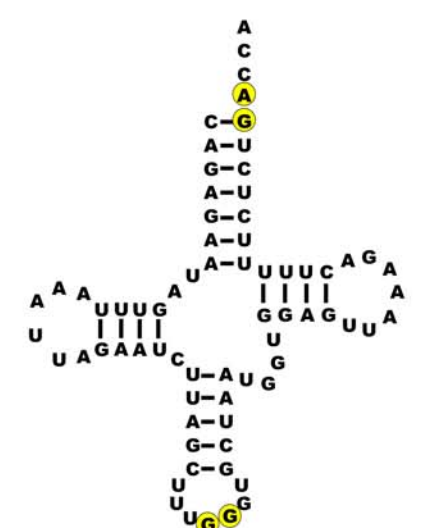
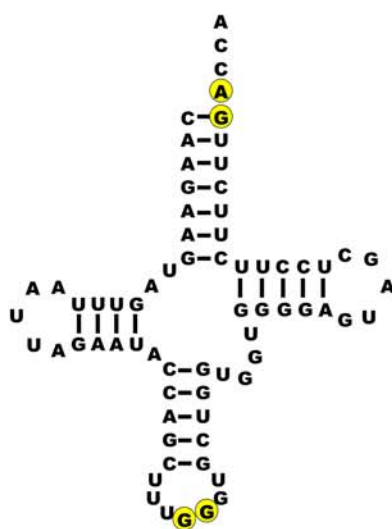
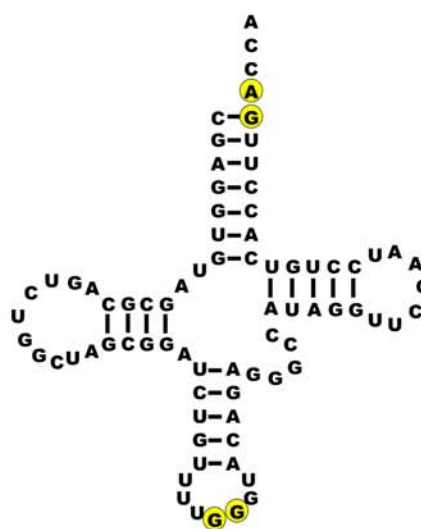
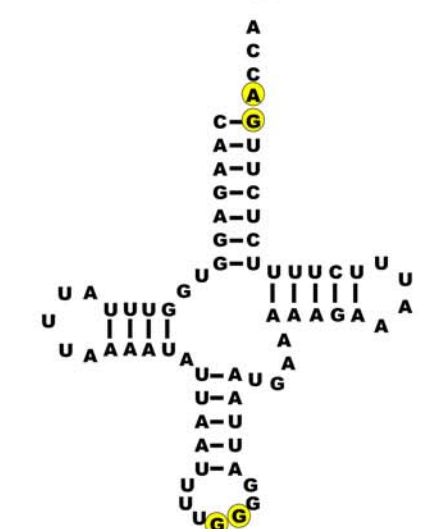


Expanded View Figures

Figure EV1. P-type tRNA^{Pro} isoacceptors from bacteria and eukaryote's organelles.

Cloverleaf structure of tRNA^{Pro}. TgtRNA_a^{Pro}, *T. gondii* apicoplast-encoded apicoplast tRNA^{Pro}; EctRNA^{Pro}, *E. coli* tRNA^{Pro}; BttRNA^{Pro}, *Bacillus thuringiensis* tRNA^{Pro}; EftRNA^{Pro}, *Enterococcus faecalis* tRNA^{Pro}; BstRNA^{Pro}, *Bacillus subtilis* tRNA^{Pro}; HstRNA_m^{Pro}, *Homo sapiens* mitochondrial-encoded mitochondrial tRNA^{Pro}; MmtRNA_m^{Pro}, *Mus musculus* mitochondrial-encoded mitochondrial tRNA^{Pro}; AttRNA_m^{Pro}, *Arabidopsis thaliana* mitochondrial-encoded mitochondrial tRNA^{Pro}; DmtRNA_m^{Pro}, *Drosophila melanogaster* mitochondrial-encoded mitochondrial tRNA^{Pro}.

TgtRNA^aProEctRNA^{Pro}BttRNA^{Pro}EftRNA^{Pro}BstRNA^{Pro}HstRNA^mProMmtRNA^mProAttRNA^mProDmtRNA^mPro