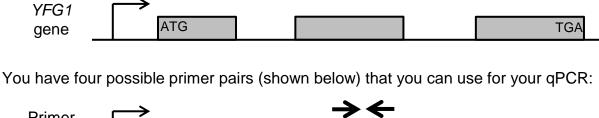
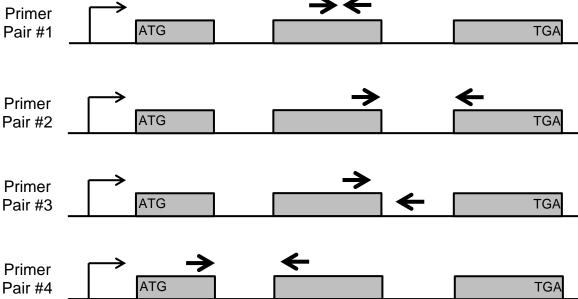
7.003 Spring 2022 Day 16 In-Lab Questions

1) You have prepared cDNA from a human cell RNA sample and now want to perform qPCR to measure the levels of mRNA expression of your favorite gene, *YFG1*, shown in the diagram below. Gray boxes represent exons, and the space in between the gray boxes represents an intron of *YFG1*.





Which primer pair would be the best to use? Explain why.

2) The agarose gel you poured today had a higher agarose percentage than the gels you previously poured (2% agarose vs 0.8% agarose). What is the reason for this?

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