Ashlee Gardiner

Bioinformatics

Assignment 8

**1.) Species (not human) -** HIV

**2.) Gene (not tyrosinase) -** pol

**3.) Rank 1 target sequence and genomic location**

#### Target sequence -  **GCATGGGTACCAGCACACAAAGG**

#### Genomic location- AF033819.3:3695

**4.) One primer pair that you can use to check the crispant genotypes/use for gRNA. Report sequence and coordinates for left and right primers.**

Left primer coordinates: AF033819.3:3606-3628

Right primer coordinates: AF033819.3:3747-3769

**5.) If you knock out this gene, what is your expected phenotype?**

This gene encodes enzymes for virus replication and maturation. If this gene is knocked out then the HIV virus would lose it’s ability to replicate or mature.