

1.) Species- *Macaca mulatta* (rhesus monkey)

2.) Gene- *TYRP1*

3.) Rank 1 target sequence and genomic location

CACTAAACTCCCGACCTATTTGG	15:70881482	+	45	0	0	0	0	0	27.67
-------------------------	-------------	---	----	---	---	---	---	---	-------

4.) One primer pair that you can use to check the crisprant genotypes/use for gRNA.

Report sequence and coordinates for left and right primers

15:70881663- 70881685	TGACTATCCCAAT AGGGTCCAC	6 0 . 1	0	15:70881410- 70881432	AAGAAGCAGTCCC AAAAATCAA	6 0 . 1	0	0	2 7 5
--------------------------	----------------------------	------------------	---	--------------------------	----------------------------	------------------	---	---	-------------

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

Phenotype “golden” rhesus monkey occurs every 1:10,000