

# GCAMP3

## mice

### GCaMP3 genotyping PCR protocol (detection of the mutant band)

#### Taq-Pol PCR

	Stock [ ]	Vol to add (uL)	Final [ ]
HotStarTaq	2x	7.5	
primer F9	2.5uM	3	0.5uM
primer R9	2.5uM	3	0.5uM
Template DNA		1.5	
<b>TOTAL</b>		<b>15</b>	15

HotStaTaq	Qiagen	203443
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Program:	Temperature	Time	
	94°C	2 min	
	94°C	25 sec	x 35 cycles (30 repeats)
	60°	25 sec	
	72°	20 sec	
	72°	3 min	
	4°	forever	

#### EXPECTED BANDS

Description	Band Size
Mutant	546

Expected Results	
	Mutant= 546bp
	Heterozygote= 604bp & 546bp
	Wild Type= 604bp

Primers				
Primer	5' Label	Sequence 5' --> 3'	3' Label	Primer Type
GCaMP3 F9	-	CTT CAA GAT CCG CCA CAA CAT CG	-	Mutant Forward
GCaMP3	-	TTG AAG AAG ATG GTG CGC TCC TG	-	Mutant Reverse

