

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	36561
MMRRC Strain Name	129S6(B6)- <i>Pgk2</i> ^{tm1^{Dao}} /Mmnc
Gene Name(s)	phosphoglycerate kinase 2 (Pgk2)
Breeding Protocol(s)	Sib-mating (heterozygous x heterozygous)
Protocol Date	2/26/13

MMRRC # 36561 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 58°C for 30 sec

Step 4: 72°C for 45 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

Taq: **Apex Taq and Chromataq 5X Buffer**

Bands: MUTANT: 398bp

WT: 260bp

Primer sequences 5' to 3':

PGK2WTF(36561): CTG GTG ACA AGT TTG ATG AGA ATG C

PGK2KOF(36561): CCT TCT ATC GCC TTC TTG ACG AGT

PGK2KOR(36561): TCC GCC TCC TAT AAT GGT GAC ACA

Run on 2% agarose gel in TAE.

	1X
ddH ₂ O	12
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2