

GENOTYPING BY PCR PROTOCOL FORM

MUTANT MOUSE REGIONAL RESOURCE CENTER: UC DAVIS

mmrrc@ucdavis.edu

530-754-MMRRC

NAME OF PCR: STOCK *Dlx1/Dlx2*^{tm2Jlr}/Imucd MMRRC # 036673-UCD

Protocol: Locus (PCR protocol provided by Donating Investigator)

Reagent/ Constituent	Volume (μL)
Water	1.0
10x Buffer (contains / without 15mM MgCl ₂)	2.5
dNTPs (stock concentration is 25mM)	0.2
Primer 1 (stock concentration is 20 uM) Name: DP4+	0.65
Primer 2 (stock concentration is 20 uM) Name: DP4-	0.65
Water	17.75
Taq Polymerase	1
Qiagen Q Buffer	1.25
DNA sample extracted ☐ NaOH ☒ Proteinase K ☐ Other:	
TOTAL VOLUME OF REACTION:	
	25.000 μL

Comments on protocol:

Strategy:

Steps	Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? ☐	95	5:00	1
2. Denaturation	95	1:00	30
3. Annealing } steps 2-3-4 will cycle in sequence	60	1:00	
4. Elongation	72	1:00	
5. Amplification	72	10:00	1
6. Finish	4	n/a	n/a

Primers:

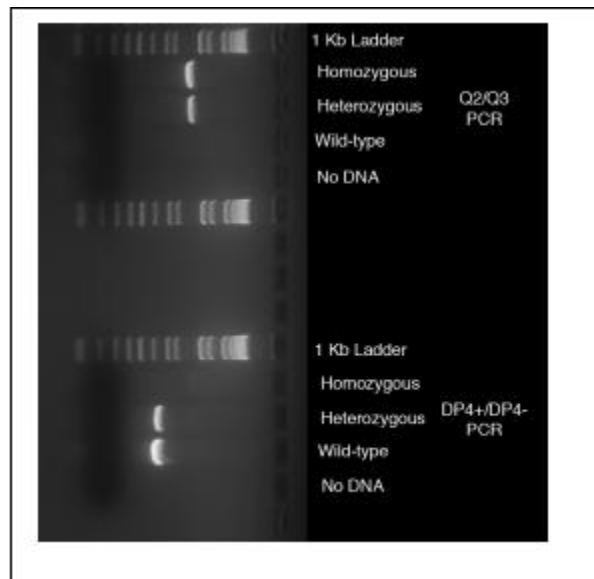
Name	Nucleotide Sequence (5' - 3')
1. DP4+	TCC GAA TAG TGA ACG GGA AGC CAA AG
2. DP4-	CAG GGT GCT GCT CGG TGG GTA TCT C

Electrophoresis Protocol:

Agarose: 1% V: 120

Estimated Running Time: 45 min.

Primer Combination	Expected Bands	Genotype
DP4+/ DP4-	700 bp	



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530-754-MMRRC

NAME OF PCR: STOCK *Dlx1/Dlx2*^{tm2Jlr}/Immucd MMRRC # 036673-UCD

Protocol: Neo (PCR protocol provided by Donating Investigator)

Reagent/ Constituent	Volume (μL)
Water	1.0
10x Buffer (contains / without 15mM MgCl ₂)	2.5
dNTPs (stock concentration is 25mM)	0.2
Primer 1 (stock concentration is 20 uM) Name: Q2	0.65
Primer 2 (stock concentration is 20 uM) Name: Q3	0.65
Water	17.75
Taq Polymerase	1.0
Qiagen Q Buffer	1.25
DNA sample extracted ☐ NaOH ☒ Proteinase K ☐ Other:	
TOTAL VOLUME OF REACTION:	
25.000 μL	

Comments on protocol:

Strategy:

Steps	Temp (°C)	Time (m:ss)	# of Cycles
1. Initiation/Melting HOT START? ☐	95	5:00	1
2. Denaturation	95	1:00	} 30
3. Annealing } steps 2-3-4 will cycle in sequence	65	1:00	
4. Elongation	72	1:00	
5. Amplification	72	10:00	1
6. Finish	4	n/a	n/a

Primers:

Name	Nucleotide Sequence (5' - 3')
1. Q2	AGC TGC TCG GGG GTC GCT CAC CTG
2. Q3	TCG CAG CGC ATC GCC TTC TAT CGC

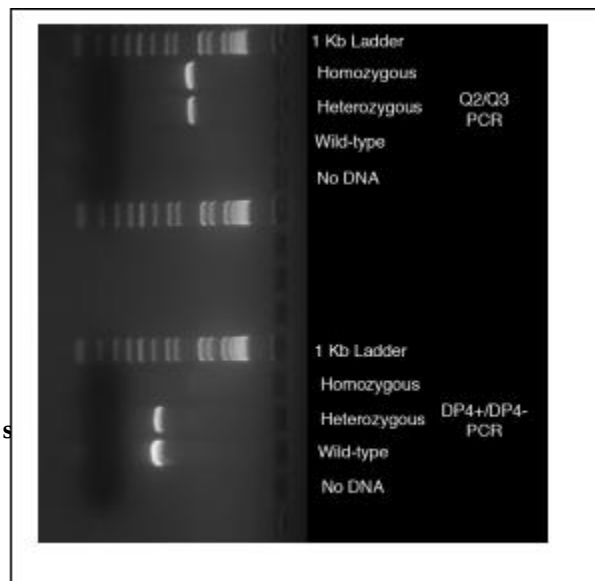
Electrophoresis Protocol:

Agarose: 1% V: 120

Estimated Running Time: 45 min.

Primer Combination	Expected Bands	Genotype
Q2 + Q3	1100 bp	

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PCR protocol provided by Donating Investigator