

Genotyping protocol

EMMA ID: EM:10541

Gene symbol: Dcn

Strain designation: B6.129S2(Cg)-Dcn^{tm1.2Geno}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
EM10541-11326	CCT CAA TTC ATT TGT GTC CAG TTA GGC C
EM10541-11327	ACA AGG AGA GGA AAA AGG GAG GAC CC

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	EM10541-11326	EM10541-11327	254
Mutant	EM10541-11326	EM10541-11327	370

Reaction mix:

Component	Volume (μl)
Genomic DNA (~50-100 ng)	2.0
Primer 1 (10 μM)	1.0
Primer 2 (10 μM)	1.0
10x Buffer (15 mM MgCl ₂)	3.0
MgCl ₂ (25 mM)	1.0
dNTPs (25 mM)	0.25
DNA polymerase (5 U/μl)	0.1
H ₂ O	21.65
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
2 min	94	
30 sec	94	35
30 sec	66	
5 min	68	
8 min	68	
∞	10	