

## Genotyping protocol

EMMA ID: EM:10681

Gene symbol: Lhcgr

Strain designation: B6;129S7-Lhcgr<sup>tm1Hht</sup>/Oulu

### Primers:

Primer name	Primer sequence (5'- 3')
EM10681K01	TCT GGG GAT CTT GGA AAT GA
EM10681K02	AC CTT GAC ACC TGG AGT T
EM10681Neose	GGG CTC TAT GGC TTC TGA GGC

### Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	EM10681K01	EM10681K02	359
Mutant	EM10681Neose	EM10681K02	250

### 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 <sub>2</sub> )	3.0
MgCl <sub>2</sub> (25 mM)	1.0
dNTPs (25 mM)	0.25
DNA polymerase (5 U/µl)	0.05
H <sub>2</sub> O	21.7
<b>Total</b>	<b>30.0</b>

### PCR program:

Time	Temperature (+ °C)	Cycles
5 min	95	
1 min	95	35
30 sec	57	
1 min	72	
10 min	72	
∞	4	