

Genotyping protocol for Mesp1tm2(cre)Ysa (O315J/370 – FESA code CDV)
 (attached to freezing form 2008/2009)

Genotyping MesP1cre 55

WILD-TYPE	
Primer	Sequence
PB92-R5	GACAGGGTGACAATCATCCGTTGCAT
PB92-L10	AGAATCGTGGGACCCATCGTTCCAGTA
Anneal	65°C
bp	470

MUTANT 2	
Primer	Sequence
Mesp1cre 2 fw	CAGGATAAAGCTACAGCGGAC
Mesp1cre 1 rev	GCCGCATAACCAAGTCAAAC
Anneal	57°C
bp	399

	n	wt 20	mut 20
2 DNA			
0.1 fw	2	2	2
0.1 rev	2	2	2
2 10x buffer	40	40	40
1.2 MgCl ₂	24	24	24
0.5 dNTP	10	10	10
0.2 Taq	4	4	4
<u>13.5</u> H ₂ O	270	270	270
20			

PCR	95°C	10 min	
	95°C	30 sec	
	60°C	30 sec	x30
	72°C	1 min	
	72°C	5 min	
	4°C	10 min	
	End		

Reference: MesP1 is expressed in the heart precursor cells and required for the formation of a single heart tube. Yumiko Saga, Sachiko Miyagawa-Tomita, Atsuya Takagi, Satoshi Kitajima, Jun-ichi Miyazaki and Tohru Inoue Development 126, 3437-3447 (1999)
 AR - 2012