

**EMMA ID:** 13609

**Gene:** *Anxa10*

**Common name:** *Anxa10-CreERT2*

**Allele:** *B6.Cg-Anxa10<sup>tm1.1(cre/ERT2)Dstan</sup>/leg*

## Genotyping Information

Genotyping by end-point PCR based on gel is composed of a genespecific short range PCR using primers on wild type allele and a mutant allele-specific short range PCR. The combined results show the genotype of the mice. For example: mutant positive, wild type positive = Heterozygous.

### PCR primer pairs and expected size bands

Assay	Forward Primer	Reverse Primer	Expected Size Band (bp)
Wildtype	Anxa10_wt_for	Anxa10_ki_rev	211
Mutant	Anxa10_wt_for	Anxa10_wt_rev	345

### Primer sequences

Primer Name	Sequence 5' --> 3'
Anxa10_wt_for	AGCTGACCTTTAGAAACAGGGA
Anxa10_wt_rev	TGAATACAGCACGCGTTCAG
Anxa10_ki_rev	TTGCATTCTTTGGCGAGAG

### PCR setup (Qiagen, Hot Start Plus)

Component	Volume (µl) 1x	Final conc.
DNA (~ 50-100 ng)	2	
Q-Solution (5x)	2,5	0,5
PCR-Buffer (10x)	2,5	1
DNTP mix (10 mM)	0,5	0,2
MgCl <sub>2</sub> (25 mM)	1,5	1,5
Primer 1 (10 pmol/µl)	1	0,4
Primer 2 (10 pmol/µl)	1	0,4
Taq Polymerase (5 U/µl)	0,3	0,06
H <sub>2</sub> O*	13,7	
Final volume	25	

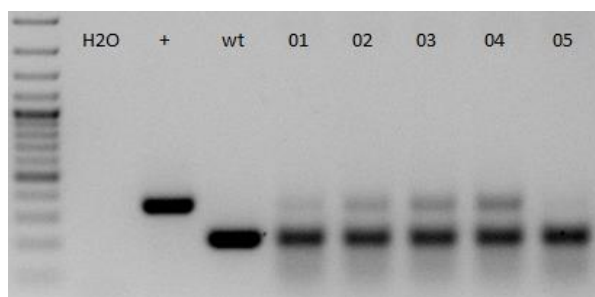
\* The amount of H<sub>2</sub>O is adjusted with the number of primer.

### Amplification conditions

PCR Settings	Temperature (°C)	Time	# of cycles
1 Denaturation (Melting)	95°C	5 min	1
2 Amplification (Melting, Annealing, Polym.)	94°C	30 sec	39
	60°C	45 sec	
	72°C	45 sec	
3 Polymerisation	72°C	10 min	1
4 Cooling	4°C	hold	1

These PCR conditions have been optimized for our methods and preparation kits. Adaptions may be required.

### Gel Image



Separated by gel electrophoresis on a 2% agarose gel.

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PubMed ID: 31585123

Title: Mouse Models of Human Gastric Cancer Subtypes With Stomach-Specific CreERT2-Mediated Pathway Alterations.

Authors: Seidlitz T, Chen YT, Uhlemann H, Schölch S, Kochall S, Merker SR, Klimova A, Hennig A, Schweitzer C, Pape K, Baretton GB, Welsch T, Aust DE, Weitz J, Koo BK, Stange DE.

Journal/Book: Gastroenterology

Year: 2019

Volume: 157

Pages: 1599-1614.e2