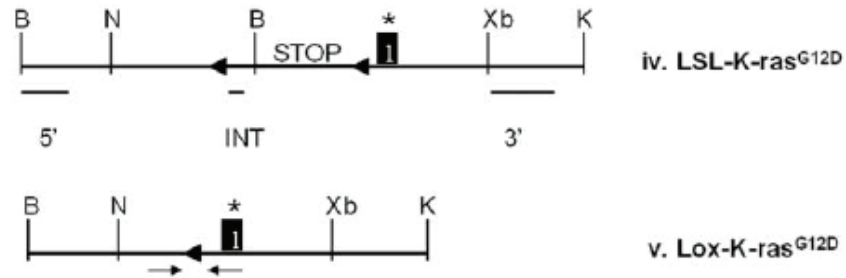


Kras^{LSL-G12D}



from Tuveson D et al., 2004 Cancer Cell

PCR analysis conditional Kras^{LSL-G12D} allele:
(modified from T. Jacks lab website)

Uni'new (3' universal) : CgC AgA CTg TAg AgC AgC G
SD5'new (5' mut) : CgA Tgg CTT gAg TAA gTC TgC

DNA	1 μ l
PCR buffer (10x)	2 μ l
dNTPs (10mM)	0.5 μ l
MgCl ₂ (50mM)	1.5 μ l (final 1.5mM)
Uni'new (50ng/ μ l)	0.5 μ l
SD5'new (50ng/ μ l)	0.5 μ l
Betaine	5 μ l (final 10%)
rTaq	0.5 μ l
H ₂ O	35.5 μ l + 50 μ l

PCR program:

5 min	94C
30 sec	94C \
90 sec	60C 34 cycles
60 sec	72C /
5 min	68C

Bands:

Mutant: +/- 550 bp

Wildtype: not present, will only detect mutant product

rTaq DNA polymerase (with W-1) (Invitrogen: Cat. No. 18038-034 100 units)