

RMRC Genotyping Protocol-PCR

No.	RMRC13389	Strain Name	129/Sv- <i>Fgfr3</i> ^{tm1.1(FGFR3)^{Ytc}} /Narl
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A. Primer

	Primer name	Sequence
1	<i>mfgfr3-F</i>	5'-CCT CCG GAG TAA CTC AGT GC-3'
2	<i>mfgfr3-R</i>	5'-ACA ACT TAC CGA GCG AAA GC-3'
3	<i>hFGFR3-R</i>	5'-GCA CAC TGA AGT GGC ACA GT-3'

B. Genomic extraction :

- ☐ Phenol-Chloroform extraction
 ☐ commercial extraction kit _____
- ☐ Lysis buffer 0.3mg/ml Proteinase K in 0.1% PBST
☐ other

C. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		8	μl	1	95	5:00	1
PCR buffer (GoTaq® Green Master Mix)	2x		10	μl	2	95	0:45	35
dNTP		mM		μl	3	53	0:45	
Primer 1	0.2	μM(ρmol/μl)	0.5	μl	4	72	1:30	
Primer 2	0.2	μM(ρmol/μl)	0.5	μl	5	72	7:00	1
DNA	--		1	μl	6	4	∞	
Taq		U/μl		μl	7			
Mg ²⁺		mM		μl	8			
Total			20	μl	9			

The information of Taq, including company name and catalog number :

D. PCR Product

	Primer set		Product size	Target region
1	mFGFR3-F	mFGFR3-R	1067 bp	CCCCCTGTCCTCCGGAGTAACTCAGTGCCTCTCCTCTGTAGT CTCCACAGAGGCGTTCTCCCACCGGCGCCGGAGCCGGGCGTGG GGGGTTGCAGCATGCCCCGCGCGCTGCTTGAGGACGCCGCGG CCCCCGCTCTGGAGCCATGGTAGTCCCGGCTGCGTGCTAGTG TTCTGCGTGGCGGTGCTGGCTGGAGCTACTTCCGAGCCTCCTG GTCCAGAGCAGCGAGTTGTGCGGAGAGCGGCAGGTAAGGACTG ACCCAAGGTGTTCTTCTGGGGGCCGGCCCTGAATCACAGGGGC TTTGGCAATGGTGAACAGCCCTTGGGTGAGGAAGGGGCGTCGG GTTGATTAGCACACAGGGGCTAGTGCGCCGAGGTTTGTCCCC TGCCCCGCAGATCGCTGTCAGCTCGGACGCGGCAGTTTATAGG GGTGTCTGTAGGCTGGGAGCCACCACCAAGTGCGAGGCGTCA CGTGGAACCGGTGCCCCGTGACGGTGGTCCAGGCAGAGGGGCGT TGGGAAGGCGCGGAGCTGACTTCCCACGATTCTATTGTTGC TTCTCGAATTTGAGAGGAGGAAAAATGCCTGTTATTGATTGAG CCGTTCTCCCGGAACAGTTCTTCTCTGCTTCAGCTAAAGGAA GGCTGGACGTTGCGGGGTGGATAGTAGTATCCCAGCCAAAGCT CAGCTTCAGGGTTTCGCATGACAAGGTGACAGCTTCAGTGCGG CTGCTCCCCCTCTTATCCTGTAGGCGGCTGAGGGGTCGGTTCC CAGGGGCGCGCACAGACTGCCCTTCAGGCCGCACGCTGGGAGA TGAGGGGCGGTTGTCCCAGGATCTTGGCGCCGCTAGGTAGTC CCGCTGGCCACCAAAGTCCGATGGGACACTTGAATGCCCTCAA ACGGGGCCCCGAGGCCAAGGATGCGAAAGGGAGCCACGGTCCG CTCTGCGTCCCTTGGTTGCCCCGAGGTGCGACGCGCGGGCCC CCGGCTGTGCCCGGTGGCAGCGTGCCAAAGCAGAGCAGCGGTC TGGCGGGAGGCCGCGCAAGGGAGGCTTTCGCTCGGTAAGTTG TCGCC
2	mFGFR3-F	hFGFR3-R	506 bp	CCCCCTGTCCTCCGGAGTAACTCAGTGCCTCTCCTCTGTAGT CTCCACAGAGGCGTTCTCCCACCGGCGCCGGAGCCGGGCGTGG GGGGTTGCAGCATGCCCCGCGCGCTGCTTGAGGACGCCGCGG CCCCCGCTCTGGAGCCATGGTAGTCCCGGCTGCGTGCTAGTG TTCTGCGTGGCGGTGCTGGCTGGAGCTACTTCCGAGCCTCCTG GTCCAGAGCAGCGAGTTGTGCGGAGAGCGGCAGGTAAGGACTG ACCCAAGGTGTTCTTCTGGGGGCCGGCCCTGAATCACAGGGGC TTTGGCAATGGTGAACAGCCCTTGGGTGAGGAAGGGGCGTCGG GTTGATTAGCACACAGGGGCTAGTGCGCCGAGGTTTGTCCCC TGCCCCGCAGATCGCTGTCAGCTCGGACGCGGCAGTTTATAGG GGTGTCTGTAGGCTGGGAGCCACCACCAAGTGCGAGGCGTCA CGTGGAACCGGTGCCCCGTGACGGTGGTCCAGGCAGAGGGGCGT TGGGAAGGCGCGGAGCTGACTTCCCACGATTCTATTGTTGC TTCTCGAATTTGAGAGGAGGAAAAATGCCTGTTATTGATTGAG CCGTTCTCCCGGAACAGTTCTTCTCTGCTTCAGCTAAAGGAA GGCTGGACGTTGCGGGGTGGATAGTAGTATCCCAGCCAAAGCT CAGCTTCAGGGTTTCGCATGACAAGGTGACAGCTTCAGTGCGG CTGCTCCCCCTCTTATCCTGTAGGCGGCTGAGGGGTCGGTTCC CAGGGGCGCGCACAGACTGCCCTTCAGGCCGCACGCTGGGAGA TGAGGGGCGGTTGTCCCAGGATCTTGGCGCCGCTAGGTAGTC CCGCTGGCCACCAAAGTCCGATGGGACACTTGAATGCCCTCAA ACGGGGCCCCGAGGCCAAGGATGCGAAAGGGAGCCACGGTCCG CTCTGCGTCCCTTGGTTGCCCCGAGGTGCGACGCGCGGGCCC CCGGCTGTGCCCGGTGGCAGCGTGCCAAAGCAGAGCAGCGGTC TGGCGGGAGGCCGCGCAAGGGAGGCTTTCGCTCGGTAAGTTG TCGCC

				CCCGGGCCCCAGAGCCCCGGCCAGCAGGAGCAGTTGGTCTTCGGC AGCGGGGATGCTGTGGAGCTGAGCTGTCCCCCGCCGGGGGTG GTCCCATGGGGCCCCTGTCTGGGTCAAGGATGGCACAGGGCT GGTGCCCTCGGAGCGTGTCTGGTGGGGCCCCAGCGGCTGCAG GTGCTGAATGCCTCCCACGAGGACTCCGGGGCCTACAGCTGCC GGCAGCGGCTCACGCAGCGCGTACTGTGCCACTTCAGTGTGC
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E. Gel Photo

