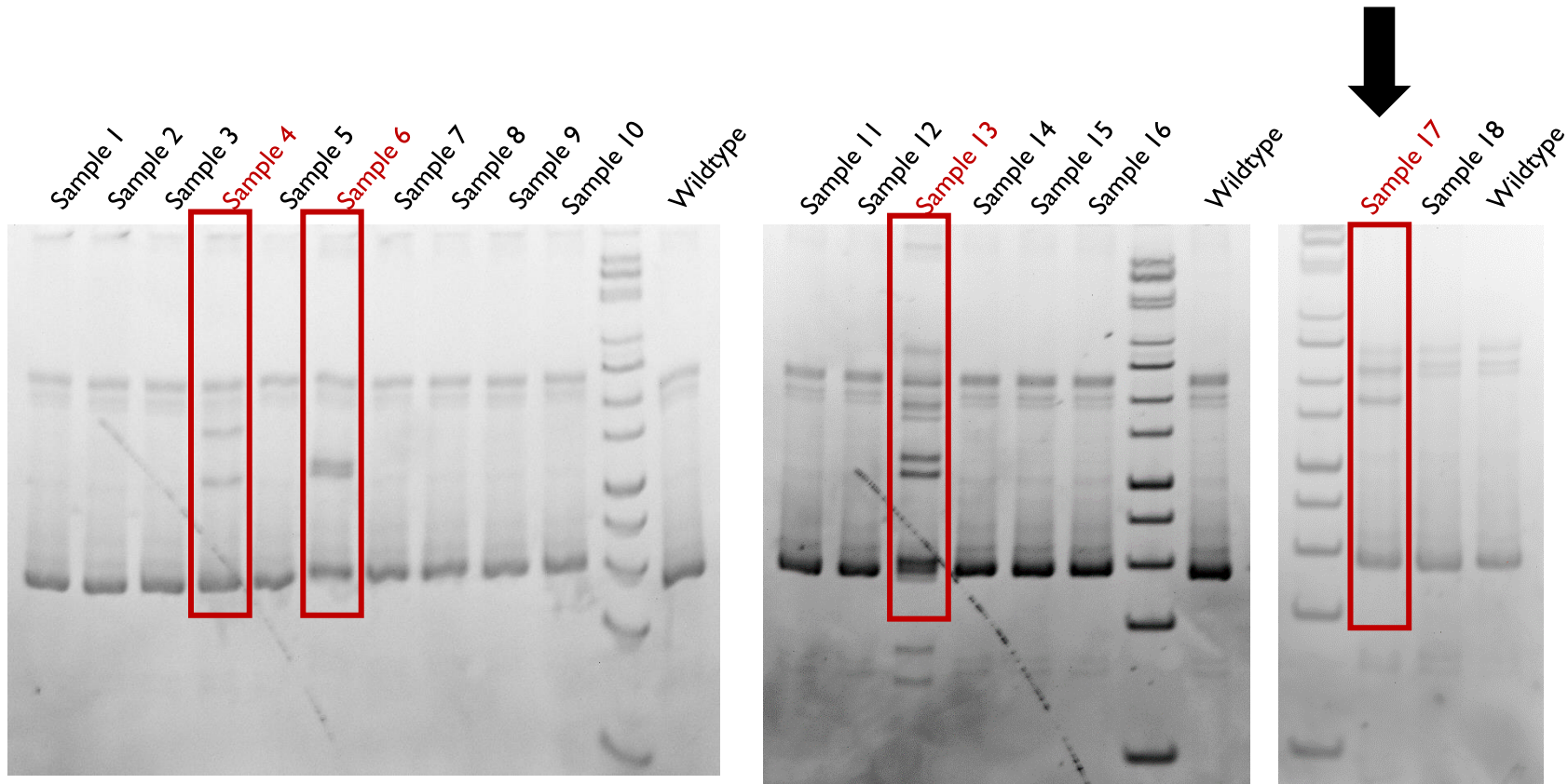


Zfhx4 Seq Results and Genotyping Issues

08/01/2018

Zfhx4 founder PCR products on 10% TBE page gel



Zfhx4 Founder 17 in pGEM-Teasy: clone #1

Line	Sequence	Position	Definition
2130	ATTGATGGT TGTGTTAGTG ATGGGAAGAG GAAACCTGTC TTAATGTGTT TCTTGTGCAA	2189	No definition line found
51	AT-----GGT TGTGTTAGTG ATGGGAAGAG GAAACCTGTC TTAATGTGTT TCTTGTGCAA	105	major
51	AT-----GGT TGTGTTAGTG ATGGGAAGAG GAAACCTGTC TTAATGTGTT TCTTGTGCAA	105	minor
2190	ATTGCTCTTT GGCTATATCA GGTCAATTGT AACCCATGCT GTACATGATC ATCGGATGAC	2249	No definition line found
106	ATTGCTCTTT GGCTATATCA GGTCAATTGT AACCCATGCT GTACATGATC ATCGGATGAC	165	major
106	ATTGCTCTTT GGCTATATCA GGTCAATTGT AACCCATGCT GTACATGATC ATCGGATGAC	165	minor
2250	TCTCAATGAT GAGGAGCAGA GGCTCCTCAG TAATAAATGC GTCTCCGCCA TAATACAGGG	2309	No definition line found
166	TCTCAATGAT GAGGAGCAGA GGCTCCTCAG TAATAAATGC GTCTCCGCCA TAATACAGGG	225	major
166	TCTCAATGAT GAGGAGCAGA GGCTCCTCAG TAATAAATGC GTCTCCGCCA -----GGG	218	minor
2310	GATTGGCAAA GACAAAGAAC CTCTTATAAG CTTTCTGGAA CCAAAAAAAT CCACTTCTGT	2369	No definition line found
226	GATTGGCAAA GACAAAGAAC CTCTTATAAG CTTTCTGGAA CCAAAAAAAT CCACTTCTGT	285	major
219	GATTGGCAAA GACAAAGAAC CTCTTATAAG CTTTCTGGAA CCAAAAAAAT CCACTTCTGT	278	minor
2370	TTATCCCAAT TTTTCTACTA CAAACCTCAT AGGACCTGAT CCAA 2413		No definition line found
286	TTATCCCAAT TTTTCTACTA CAAACCTCAT AGGACCTGAT CCAA 329		major
279	TTATCCCAAT TTTTCTACTA CAAACCTCAT AGGACCTGAT CCAA 322		minor

PREDICTED: Mus musculus zinc finger homeodomain 4 (Zfhx4), transcript variant X3, mRNA
Sequence ID: [XM_017319816.1](#) Length: 14533 Number of Matches: 1

Range 1: 1784 to 2067 [GenBank](#) [Graphics](#) [▼ Next Match](#) [▲ Previous Match](#)

Score	Expect	Identities	Gaps	Strand	
508 bits(562)	4e-141	283/284(99%)	0/284(0%)	Plus/Plus	
Query 46	ATT	CGATGGT	TGT	TAGTGATGGGAAGAGGAAACCTGCTCTTAATGTGTTTCTTGTGCAA	105
Sbjct 1784	ATT	CGATGGT	TGT	TAGTGATGGGAAGAGGAAACCTGCTCTTAATGTGTTTCTTGTGCAA	1843
Query 106	ATT	GCTTTTGGCTATATCAGGTCATTTGTAACCCATGCTGTACATGATCATCGGATGAC			165
Sbjct 1844	ATT	GCTTTTGGCTATATCAGGTCATTTGTAACCCATGCTGTACATGATCATCGGATGAC			1903
Query 166	TCTCAATGATGAGGAGCAGAGGCTCCTCAGTAATAAATGCGTCTCCGCCATAATACAGGG				225
Sbjct 1904	TCTCAATGATGAGGAGCAGAGGCTCCTCAGTAATAAATGCGTCTCCGCCATAATACAGGG				1963
Query 226	GATTGGCAAAAAACAAGAACCTCTTATAAGCTTTCTGGAAACCAAAAAATCCACTTCTGT				285
Sbjct 1964	GATTGGCAAAAGACAAGAACCTCTTATAAGCTTTCTGGAAACCAAAAAATCCACTTCTGT				2023
Query 286	TTATCCCAATTTTCTACTACAAACCTCATAGGACCTGATCCAA		329		
Sbjct 2024	TTATCCCAATTTTCTACTACAAACCTCATAGGACCTGATCCAA		2067		

ZH002 (N1 from founder 17) in pGEM-Teasy: clone #1

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2130 ATTCGATGGT TGTGTTAGTG ATGGGAAGAG GAAACCTGTC TTAATGTGTT TCTTGTGCAA 2189
      |||||
  51 -----TGGT TGTGTTAGTG ATGGGAAGAG GAAACCTGTC TTAATGTGTT TCTTGTGCAA 104
  51 -----TGGT TGTGTTAGTG ATGGGAAGAG GTAACCTGTC TTAATGTGTT TCTTGTGCAA 104

2190 ATTGTCTTTT GGCTATATCA GGTCATTTGT AACCCATGCT GTACATGATC ATCGGATGAC 2249
      |||||
  105 ATTGTCTTTT GGCTATATCA GGTCATTTGT AACCCATGCT GTACATGATC ATCGGATGAC 164
  105 ATTGTCTTTT GGCTATATCA GGTCATTTGT AACCCATGCT GTACATGATC ATCGGATGAC 164

2250 TCTCAATGAT GAGGAGCAGA GGCTCCTCAG TAATAAATGC GTCTCCGCCA TAATACAGGG 2309
      |||||
  165 TCTCAATGAT GAGGAGCAGA GGCTCCTCAG TAATAAATGC GTCTCCGCCA TAATACAGGG 224
  165 TCTCAATGAT GAGGAGCAGA GGCTCCTCAG TAATAAATGC GTCTCCGCCA -----GGG 217

2310 GATTGGCAAA GACAAAGAAC CTCTTATAAG CTTTCTGGAA CCAAAAAAAT CCACTTCTGT 2369
      |||||
  225 GATTGGCAAA GACAAAGAAC CTCTTATAAG CTTTCTGGAA CCAAAAAAAT CCACTTCTGT 284
  218 GATTGGCAAA GACAAAGAAC CTCTTATAAG CTTTCTGGAA CCAAAAAAAT CCACTTCTGT 277

2370 TTATCCCAAT TTTTCTACTA CAAACCTCAT AGGACCTGAT CCAA 2413
      |||||
  285 TTATCCCAAT TTTTCTACTA CAAACCTCAT AGGACCTGAT CCAA 328
  278 TTATCCCAAT TTTTCTACTA CAAACCTCAT AGGACCTGAT CCAA 321
```

No definition line found

major
minor

No definition line found

major
minor

No definition line found

major
minor

No definition line found

major
minor

No definition line found

major
minor

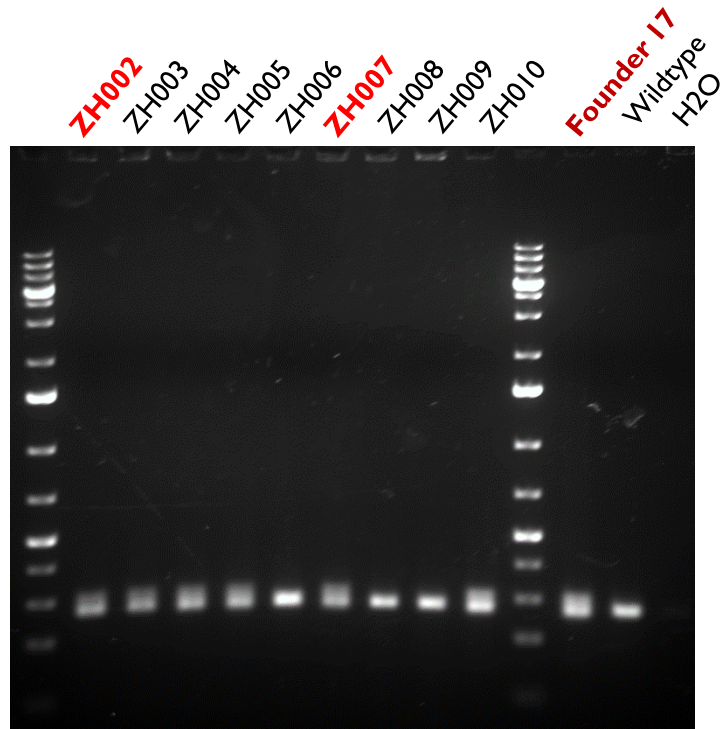
PREDICTED: Mus musculus zinc finger homeodomain 4 (Zfhx4), transcript variant X3, mRNA
Sequence ID: [XM_017319816.1](#) Length: 14533 Number of Matches: 1

Range 1: 1784 to 2067 [GenBank](#) [Graphics](#)

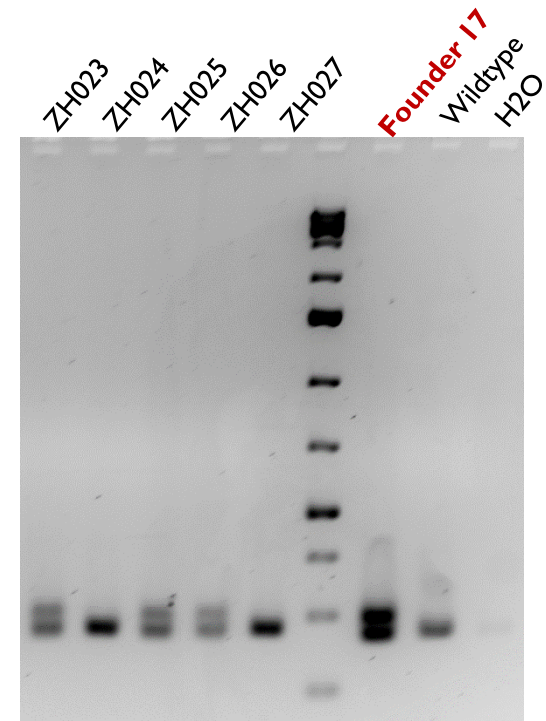
▼ Next Match ▲ Previous Match

	Score	Expect	Identities	Gaps	Strand
	508 bits(562)	4e-141	283/284(99%)	0/284(0%)	Plus/Plus
Query	45	ATTCGATGGTTGTGTTAGTGATGGGAAGAGGAAACCTGTCTTAATGTGTTTCTTGTGCAA	104		
Sbjct	1784	ATTCGATGGTTGTGTTAGTGATGGGAAGAGGAAACCTGTCTTAATGTGTTTCTTGTGCAA	1843		
Query	105	ATTGTCTTTTGGCTATATCAGGTCATTTGTAACCCATGCTGTACATGATCATCGGATGAC	164		
Sbjct	1844	ATTGTCTTTTGGCTATATCAGGTCATTTGTAACCCATGCTGTACATGATCATCGGATGAC	1903		
Query	165	TCTCAATGATGAGGAGCAGAGGCTCCTCAGTAATAAATGCGTCTCCGCCATAATACAGGG	224		
Sbjct	1904	TCTCAATGATGAGGAGCAGAGGCTCCTCAGTAATAAATGCGTCTCCGCCATAATACAGGG	1963		
Query	225	GATTGGCAAAACAAAGAACCTCTTATAAGCTTTCTGGAACCAAAAAATCCACTTCTGT	284		
Sbjct	1964	GATTGGCAAAAGACAAAGAACCTCTTATAAGCTTTCTGGAACCAAAAAATCCACTTCTGT	2023		
Query	285	TTATCCCAATTTTCTACTACAAACCTCATAGGACCTGATCCAA	328		
Sbjct	2024	TTATCCCAATTTTCTACTACAAACCTCATAGGACCTGATCCAA	2067		

Genotyping results

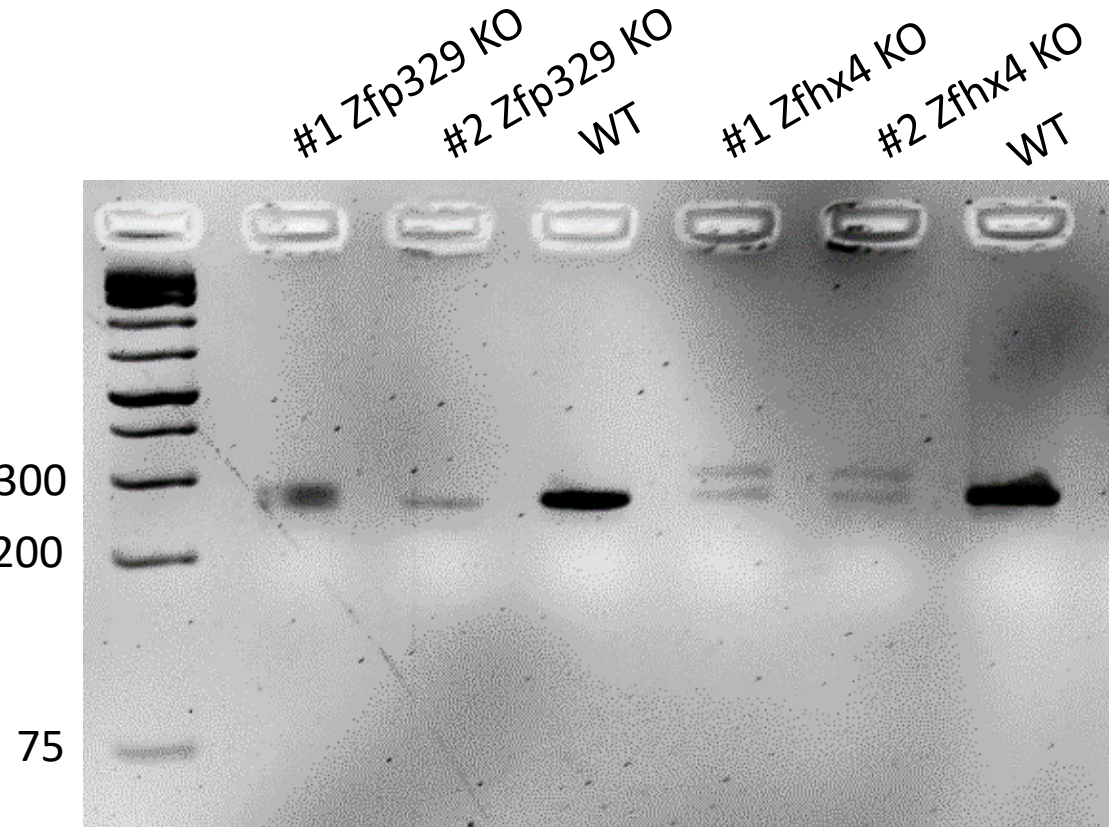


Founder no. 17 x C56Bl/6J



ZH002 x ZH007

Leesa Sampson
Screening of mice used for cryopreservation
3.5% agarose gel



Zfp92 genotyping failed:
incorrect primer set?

