

Figure S1

>P1 MusMus chr11 66933250-66933440

		MEF3 1	EBOX
MusMus	GTCACCTCACCTCTTGGGTAAGTGGAGGCCCTCAGCTGTTTGGGTCTTGCTTTTGGGAAGGACATTCCAGTGT		
RatNor	GTCACCTCACATCTTGGGTAAGTGGAGCTCCTCAGCTGTTTGGGTCTTGCTTTTGGGAAGGACATTCCAGTGT		
HomSap	GTCACCTCCCCTCTAGGGTAAGTGGAGGCCCTCAGCTGTTTGGGTGCCTGTTTGGAAAGGACATCTCAGCAT		
BosTau	GTCACCTCAGTCTTGGGTAAGTGGAGGCCCTCAGCTGTTTGGGTCCCTGTTTGGGAAGGACGTCTCAGCAT		
EquCab	GTCACCTCACTTCTTGGGTAAGTGGAGGCCCTCAGCTGTTTGGGTCCCTGTTTGGGAAGGACATCTCAGCAC		

		EBOX	MEF3 2
MusMus	TGTCCTG-GCTCCTGGAACAGCCAGCCTCCCAGAGGGCTTACCTGTCAAAGCTAGGGGGTTGACTTAGA		
RatNor	TGTCCTG-GCTCCTGGAACAGCTAGCCTCCCAGAGGACTTACCTGTCAAAGCTG-GGGGTTGACTTAGA		
HomSap	CACCCAGGGCTCCCGGGACAGCCAACCTCCCAGAAGGCTTCATCTGTCAGAGCAG-GAG-CTTACTTAGA		
BosTau	TGCCCAGGGCTCTGGGGGACAGCCAACCTTCTCAGAAGGTTTCATCTGTCAGCCCCAA-GAGGCTGACTTAGC		
EquCab	TTTCTGGGGCTCCTGGGGCGGCCAAGTCCCACAAGGCTTCATGTGTCAAAGCAG-GAGGCTGACGCAGA		

		MEF3 3
MusMus	TTTCCTTATGAGCACTCTGTAAGAGAAATGAAATAAAATAAAATCAATAAAT	
RatNor	TTTCCTTATGAGAACTCTGTAAGAGAAATCGAAATAAAATAAAATCACCA---	
HomSap	ATTCTTACAAGAACTGCAAGAGCAATTAATAAATAAGTTA-----TCT---	
BosTau	TTTCCTCAGAAGAACTTTCCAAGAGCAATTAATAAATAAGCTA-----TCT---	
EquCab	TCTCCTTACAAGAACTTTGCGCGAGCAATGAAA-----GTTA-----CCT---	

>P2 MusMus chr11 66934405-66934621

		MEF3 4
MusMus	CTTGATCCCTCTGGGGTAAGAAATCTGACGACAGGGTGAGCCTGCCAGGCGTGGCCTCTTGACTCTGA--	
RatNor	CTTGATCCCTCTGGGGTAAGAAATCCGAGGACAGGATGAGCCTGCCAGGCATGGCCTCTTGACTCTGA--	
HomSap	CTTGATCCCCATGGGGTAAGAAATCTGAGGACAGAATGAGCCTGCCAGCCATGTCCTCCTGACATTGCAA	
BosTau	CTTGATCCCCACATGGAAAGAAATCTGAGGACAGAATGAGCTTCTCC---GTGTCCTCCCCACACTGCAA	
EquCab	CTTGATCCCTGTGGGGAAGGAAATCTGAGGACA-----TTGCAA	

		MEF3 5
MusMus	ATCTGGCTGAGAGATGGGCCCGAGTTACAGCTCCTGCTGGGAATGTTCTCAGAAACTCT---ATCAGGT	
RatNor	ATCTGGCTGAGAGCTGGGGCCAGAGCTACAGCGCCTGCTGGGAATGTCTCAGAAACTCT---ATCAGGT	
HomSap	ATCTGGCCAAGGGATGGGGCTGAACCTTGCAAATCCCTCCGGGGCTATTCTCAGAAACCAAGTGATGGGGA	
BosTau	ACTTGGCCAAGGGATGGGGCCGAAGCTGTAAATCCCATCGGGGCTGTTCTCAGAAATCAAGTGGTGGGGT	
EquCab	ATCTGGCCAAGAAATGGGGCCAAAGCTGTAAATCCCAACAGGGCTGTTCTCAGAAACCAAGCCATGGGAT	

		EBOX	MEF3 6
MusMus	CAGGCGACCTCAGTTGATCTGCCCGACC--CTGGGTTTCTCGGTGACCCCTCGTCAAGGAAACCTT----		
RatNor	CAAGCGACCTCAGTTGATCTGCCCGACA--CTGGGTTTCTCTGTGACCCCTCGTCAAGGAAACCGA----		
HomSap	AACCTGACCTCAGCTGATCTACCTGATATGCTGGGTTTCTCTACTGACCCCTGACCAAGGTAATGTT----		
BosTau	TACCTGACCTCAACTGATCTACCCAACCT--CCGGAATTCTGCACTGACC-TGACCAAGGAGACCTGGCCT		
EquCab	CATCTGGCCTCAATTGATCTACCTGACC--CTGGGCTTCTCTAGCAACCCCGACCAAGGAAATGTT----		

MusMus	--A-----TT--CCATCATG--TTATTCT
RatNor	--ACTCAATT--CCGTCATG--CTATACT
HomSap	--A-----TTATCAATCATACGTTATTCA
BosTau	ATA-----TCATCAATCATAGGTTTCCCA
EquCab	-----ATCAATCATATGTTATTCA