

Cow	-----GGATCC-TGGGATCGCA-T-GGGATCGCAGAGTCGGACACAACCTGAAGCA	[60]
Human	GCTCTGTGAAGGGTCT-TGACATTGCACT-GTAATAATAAAGGTGTGTG-----TGAAGTA	[60]
Pig	GTGGGGTGAGGAGTGTATGTGGAGAGTCT-GCAAACCCAGGCCTAAATTGGTTTGGGGGA	[60]
Mouse	ACTCTGTAGACCAGGC-TGGCCTGGAACCTCAGAAATCCACCTGCCTCTGCCTCCCAAGTG	[60]
Cow	ACTGAGCATGCACCATGCACGCACAAGACCCAAGAGAGTTGGAGGAGCCAGGTCTGATGA	[120]
Human	TCTTTTTATG----GTGACTTTCTAAAAACCCAGGGAA--TCATGGGACCAGTTCTGATGA	[120]
Pig	CTTGAAGTTTTTTTAGTGACTCCCT---ACCCAAAAGAG-TGGAGAAGCCAGGTCTGATGA	[120]
Mouse	CTGGGATTAAAGCCATGAGTTGGGA--CCGCACCCGGCCCAAAGTGACTCTTAAAGGGGG	[120]
Cow	CTCAAT-TGGCTTGCAGTCTCCTCTGG-GCCT-----GCA-----	[180]
Human	CTCAGCCTGGCTTCCAGTCTCCTCCAG-GCCCAACGGTGGCCCCCAGCACTGGTTGGGGC	[180]
Pig	CTTAACCCCACTTGCAGTCTGCTCTGG-GCCT-----GCA-----	[180]
Mouse	CAGAGTGGCACATATTTTCAATCCTAGCACTCAGGAAGCAAAGGCTGGTGGATCTCTGTG	[180]
Cow	----GAGAGCTGGTCTGGGCAGAAGTGAAGCTACCTACCCTTC--AGGTTTAAACAGAAGG	[240]
Human	CTGGGAGAGCTGGCCTTGGCTGAAGTGAAGCCACCTACCCTTC--AGGCATAACAGGACA	[240]
Pig	----GAGACCTGGCCTCTGCAGAAGTGAAGCTGCCTACACTTC--AGGCCTAACAGGAGG	[240]
Mouse	AGTTCAAGGCCAGCCTGGTCTACAGAGTGAGTTCCAAGCCATCTAAGGCTATGTAGGGAA	[240]
Cow	GTGGGGATGGGAG---GGGAGGGTGCCTCA--GCCTTGCCAGCCTCAGCACCCCAAGACA	[300]
Human	GTGAGAA-GGAAG---GAAAGCCTGCCTCA--ACCT-----CCCATCAGCCCTGAGCA	[300]
Pig	GTGGGGAGGAGAG---GGGAATAGGC-TCA--GCCCTGCCATGCCAAGCACCCCAAG--	[300]
Mouse	CCCTTGAATCAAACCCAAAAGTTAGTCTGATGATTTTCTAAGACCCAGGAGGCAAGAAAC	[300]
Cow	TAGCTGGAAGGAACTGCAGACAACTTAACTTTCCACTAAGGTT-CTGGGTCTGG--ACTC	[360]
Human	CCCCAGAAGGGGGCCG-----GCTAGGAGT-CTAGGCA-----TG	[360]
Pig	---CTGACTAGAACTCCAGACAAATTTAGCTTGTCTTAAGGTT-CTGGGTCTAG--ACCC	[360]
Mouse	TGGATCAGATGAGCCAACAGGTCTGCTGTCCATCTCCAGGGCCACCAGGCTCACAGCTC	[360]
Cow	CAGGCAAGCACAGGACTGATCTGGCTCAGATGTCTGGCTGACAGCCAACCAGGAACC-CT	[420]
Human	CAGG-AGGCTGACCCCTGACTGGGCTCA--TATCCAGCCACAAGGCAGCCAGGGATC-CA	[420]
Pig	CAGGCAAGCACAGAACTGATCTGGCTCAGATGTCTGGCTACAAGCTATCCAGGAACC-CA	[420]
Mouse	GGGACCAGGCTAGGGCACATCTGTTTCA---AGCTAGTTCTAAGAAGACTTGGGACTTCA	[420]
Cow	GGCACCCCTCCCCTC--CCATC-----TCTCCCTCTGGTATGGGA----CTCTTGC	[480]
Human	GGCACCCACCCCTTGTCTGCG-----TCCCTCTCGGGAATGGGC----CTCTTGC	[480]
Pig	GGCATCCAGCCCTCCCCAGCCCTCCCAGGCTTTCCCTCTGGAATAGGAAGGACACTTGC	[480]
Mouse	GACAAAGTTGCTGTTAAGGACTGTATTATACTCTAGGCACGCTTAGGGCTAACCTGGTTG	[480]
Cow	CAAG-----AAACATACCGCTTAGAGCAATCAGATTACTG-ATTGTAATCTCAAAGGGT	[540]
Human	CCAGGCCAGAAATACACCACCTACAGTA--CAAATTAT---AATCTAAAAACAAGAGGGT	[540]
Pig	TTAAACCAGAAACATACCATCTAGAGCAG-CTATTTATGGTGATCTAAAAAACACAGGGT	[540]
Mouse	CAAAGCCAGTCACTAGGCAGTTAAAGGACTCAGAATAT-GTCTCTTGTCTTGCCAGTGA	[540]
Cow	ATTGTTGAGTTGGGGG-----AAAGGCAGAAGGT--GTTTTAGGGGCTGCTGGGAAG	[600]
Human	GGTGTGAGT-GGGGA-----AATTGGGGAAGGT--GTTTTAGGAGCCACTAGGAAA	[600]
Pig	GCTATTTAGTCGGGGGTGGGTGG-GAAGGGAGAAGGT--GTTT-AGGGTCCGCGGGAAAG	[600]
Mouse	GTCACCAAAGAGAAATCACAATCCATAAGACAAGGTTGGTATTGAATACAGACAGGACT	[600]
Cow	A-----CAGCAGTG-----CAGGGGCCACATGAGAAGGGA---TTCTGAGAGCCTAGAGG	[660]
Human	AT-GGGCAGCAGGGACTCTCTGGACTGGCTTGGGAAGAGCGCTTTTGGGGAACCTGGAGG	[660]
Pig	TCAGGGGCACAGGGGCTCTCTGGACC-ACATGGGGAGAGGGGTTTCTGGGAGGCCAGAGG	[660]
Mouse	GCTGGGCTGCAGGCA-TACTTGAAGTGTGGTGGAGAGTGC---TGTCTAGGCCTTAGAGG	[660]
Cow	GTGGCGATCGAGGCAAGGAGCATTGCTGT--AGATT-----TCCTAGGTCTGCCCC	[720]
Human	ATGGCAAGC----TGAGAAACACTGGTGTGGAGATTCCAGCCAAA	[720]
Pig	GCGAGGAGC----CAAGGAGCTCAGCAGT--AGATT-----CCCTAGGCCCGCCCC	[720]
Mouse	CTGGCCCTG----GGAGGAAC-TGGGTGTGGGGAGG-----TTGTAGCCCGACCCCT	[720]

Cow	TCCCC-CTCCTCTGGGAGGCTGTC--TTCTTGG-AAACAGCAAATAAAATGCATGACAAAG	[780]	C
Human	TCCCC-CTCCTCTGAGAGGCCGTC--TTCTTGGCAGACAGCAGAGAGATGCATGACAAAG	[780]	
Pig	TCCCC-CTCCTCAGGGAGGCCGTC--TTCTTGGCAGACAGCAGATAGATGCATGACAAAG	[780]	
Mouse	GCCCTCCCCCAGGGAGGTTGAGAGTTCTGGGCAGACGGCAGA----TGCATAACAAAG	[780]	
2A (DE)			
Cow	GGACCCTGATGGCTCTGTCTTGGGGGTGGGGACATGGCTGGGGAGGGGCC-CCTCCTGG	[840]	4
Human	GTGCCGTGATGGTTCTGTCTTGGGGATTGAG--ATGGCTGGGGAGGGGCCCTCCTCCTGT	[840]	
Pig	GGGCCATGATGGCTCTGTCTTGGGGGTGGGGAGATGGCTAGGGAGGGGCC-CCTCCTGG	[840]	
Mouse	GTGC-ATGATAGCTCTGCCCTGGGGGCAGAGAAGATGGTTGGGGAGGGGTC-CCTCTCGT	[840]	
Cow	TCCAAAGCACATCTC-CCCACCCCC-ACCAGGTCCCTTAATCTATCAGGTTTTTTTGGCA	[900]	
Human	TCCGAAGCATGTTCTCCCACCCCC-ACCAGGCCCCATAATCTACCTG-CCTTTTGGGCA	[900]	
Pig	TCTGAAGCACATCTT-TCCACCCCC-ACCAGGCCCTTAATCTATCTG-CTTTTGGGGCA	[900]	
Mouse	CCTAGCCCTTCCTTAATCTGCTATTGAGGAAGCTTGTGAACCTGGCGGCTTCCAAGTCG	[900]	
Cow	-----ATTAGTGGCTTAGAGGCAAATATAGCTCCAGTTTTTGCTGC---CCTGTAGAT	[960]	
Human	-----GTTAAAGGCCGAGAAGTGAACACAGCTGCAACCCCACTGC---CTTGTAGAC	[960]	
Pig	-----GTTAGTAGTTTAGAGTTGAA-ATAGCTCCAGCCCTGCTGC---CCTATAAAT	[960]	
Mouse	CTGCCTTTATTTAGGTCTTCCAATAACCTATGGCACTGTCCACAATGAATGTATAGAA	[960]	
Cow	CTT-----TCATCA-GACCTATGGGAAGTCTTGAAATGCACACATATA-----	[1020]	
Human	CTT-----CCGGCA-GACCTGTGGCAGGTATTGAAATGCACGCATACAA-----	[1020]	
Pig	CTT-----TCAACA-GACCTATGGGAAGTATTGAAATGCATGCACGCAA-----	[1020]	
Mouse	ATTGGGAGGTGAGCATGACAGAGTGGAGGAAACGGAAGATTTCATGGAGAGGGCCAGAGAG	[1020]	
Cow	-----TTAGTTGCCCAAAAAG-----TACTCACAGATGAGCTGGAACCTGGGGCTAT	[1080]	
Human	-----TTAG--GCTCAAAAAG-----TCTACACAGA----CAGGAGATGGG-----	[1080]	
Pig	-----TTAGTCACCCCAAACG-----CACAGGCCGATGGGCACCTGGAAGAGATTCA	[1080]	
Mouse	ATGGCCCCCTCAGCCACCCTGGGGGATGACTTGACCCTATGTGGTAGAAGGAGGGGACTTC	[1080]	
Cow	GTGATACGAATTT--AGGAGAGAGTTAAGAAAAAAAAAACAGGCTCAAAAGA-----	[1140]	
Human	--CACACGAAC----AGAGGCAACATAAGAGTGGGGGAAAAGTCTCAAAAGA-----	[1140]	
Pig	GAGGAGAAAAAGC--AAAACAAAACAACACGGACACACAAAAACCCAACAGA-----	[1140]	
Mouse	CACACATGTGCTATGTGTAGCTGTGTGTAGGTACATACACACCCTTAAAATAAAACGCAA	[1140]	
Cow	-----TTCCTAG-----ATACGACCAAGGTGAAGACAGCAGGCCACAGTCAAGAGGAC	[1200]	
Human	-----CTCACGG-----ATGCCACCAAGATGAAGACAGCTGGCCACG-----GGAC	[1200]	
Pig	-----CTCAAAG-----G-ACTCCT--GGTGGAGCTAACTGGTCACAGTCTGGAGGAT	[1200]	
Mouse	TTTTTTTTTCAAAGTCTCAGGGTGAATTTGGTGAAGTCGATGAAGCTGAGGCAGGAGAAT	[1200]	
Cow	CCCCAGCACCTCAGAAG-----GCAGATG-----CTGAGCAAATAG--	[1260]	
Human	ACCCATCCCCTTAGAAG-----GCAGATAGAGCCACTGACCCAGCAGACAA--	[1260]	
Pig	GCC-AGCCCCCTCAAGAC-----AGATGCCGAGCCACTGACCCTAGCAAACAA--	[1260]	
Mouse	TATCAGGAGTTCAAGGGCAGCTTGTTTTATAGAGAAAGTTCCATCTCTACCTGATGAAG	[1260]	
Cow	--CCTCAGACAGGGCGGGGA-----TGTAGAGA-----TGTCTAAGTCAAC--AG	[1320]	
Human	--GCCCAGGCAGGGCTGAGCCTGGAGCCTGCAATGAGAAAGCCTTACTTAAGTCGAC--AG	[1320]	
Pig	--CCTCAGACCCAGCCAAGA-----TGAAGAGG-----TGTCTAGGTCCGC--AG	[1320]	
Mouse	ACTACCATCAAGAGACACCCCCGCCCCCAGGGCACCTAGAGCCACTGACCCTAGCCAAC	[1320]	
Cow	AGGTC---CATGC----TCCAGGCTCAGGATTCTGGCCTTCCAAGGTGTATGGAGCTCTG	[1380]	
Human	AGGTCAG-CGTGCCCAGTCCAGACCTGGCCTTCTGGCCTTCAAGCTGTGGGGAGCCCTG	[1380]	
Pig	AGGTC---TGTGT----CCCAGTCTCAGGAGTCTGGCCTCC-AAACTGTAGGAAGCTCTG	[1380]	
Mouse	AGCTCAGGCGGGCTGGGCCCAGGCTCAGAACTCTGTCTGGCTATGTACACTGTGGGGTG	[1380]	
Cow	G TTCACAGCCTTTCCGGAGT--CCCCCAATTAC-----CTCGGGGCCTTCATTTGGGG	[1440]	
Human	GCCCAGAGCCCCCTCTGGAG--CCCCCAGACTTAC-----CCCAGGGCCCTCCACTGAGAT	[1440]	
Pig	ATCCATGGCTTCTCTGGAGAGCCCCCTCACTCAGGTTCACTGGGGCCCTTCGTTTAGGG	[1440]	
Mouse	CTCTGGG---CTTTTTGAGG--CTGTGTGATTAC-----CCTGGGGCCCTTCGTTACAGAG	[1440]	

Cow CAAGTTTGGGGAGCAGACAGACAAACATCATTCCTAGCAGACAGGCAATCTGAAAGCTAT [1500]
Human CAAGTTTGGGGAGCAGACAGACAAACATCATCCCTCACAGACAGGCATTCCGTTGGCTAT [1500]
Pig CAAGTTGGGGGAGCAGACAGACAAACATCATCCCCAGCAGACAGCCAGTCTGAAAGCTAT [1500]
Mouse CATGGTGTAGGAGCAGACAGACAAACACCATCCCTTGCGACAGGCACTCTGAGGGCTAT [1500]

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Cow TCTCTTGCAAACAGAGAATAAGCACTAAGCCTTCAGTGTGAGCC-----CTCAGGAC [1560]
Human TCTCTTGCAAACAGA-ATCAAGCACTAGACCA GCAGCATGAGCCTCAGGATACTCAGGCC [1560]
Pig TCTCTTGCAAACAGA-ATCAAGCACTAGGCCA GCAGCCTGAGCC-----TCAGGAC [1560]
Mouse TCTCTTGCAAAGATA-ACTAAGCACCAAGGCCA GTAATGGGATCC-----TCAGACT [1560]

Cow CAGCCCAGA-----CCCTGTGGGAGAGCTTAGGTCAGGCTTCTTGACCTCCACCCC [1620]
Human AGGCCCAGAAAAACAGACCCTGAAGGGGAGCTTAGGGCAGCCTTCCTGCACGCCT-CCAC [1620]
Pig AGACCCAGAAAAATAGACCCTGTGGGAGAGCTTAGGGCAGGATTCTGCACCCCCCTCCCC [1620]
Mouse GGGCCCAGAAAA---CCTACTAGGGAAAGTTCAGGGTAGGCTCTCTGCACCCCCCTCCTC [1620]

Cow AAGTCGCTCTCCTCTTCCT-CCTCATCTTTTTTGCCAGCC----CCCCTAAACAAGGC--- [1680]
Human AAATCACTCTCCACCTCCT-CTGCGTCTTTCTGCCAGCCAGCCCCACTAAACAAAGCACA [1680]
Pig AA-TCGCAGTTCACCCCCCTTCTGCATCTTTTCGCTAGCC-----CCCCAAACAAAG---- [1680]
Mouse ----CTAATCCCGTCTCCT-TAGTGTCTTTCCGCCAGCA-----CAGGAATGGGG---- [1680]

Cow -----CTGGGGGGCGGGGGGAGGGGTAGAAGATGAGGCTGAATGCCTGCGTCCTCT [1740]
Human TCCCTCAATCTGCCAGGCTCGGGGAGGGACGCACGATGAAGCTGGACGCCTGAGTCCCCC [1740]
Pig -----GCCTGGACGCCTCAGTCTCTCT [1740]
Mouse -----GAGGGGTGGGTGACGAGGATGAACACCGGAGTCC-CT [1740]

1A (PE)

Cow ACAGG-----GGGACGGGATACCTAGGCCCCAGTGGGCGGCCCT-----GTCTGAGG [1800]
Human AGAGGAAGGAGGAAGTAGATACCTAGGTCCCTGTGGGGGGCCCTTGGTGCCCGTCTGAGG [1800]
Pig AGAGGG-----GGGACAGGATACCTAGGTCCCAGTGGGGGGCCCT-----GTCTGAGG [1800]
Mouse GGAGGAAGG-GAAGCAGGGTATCT-----CCA-----TCTGAGG [1800]

Cow CTCACAGTCTTTGAGGGGTGGTGGGGGGGTGGTTGCTGCAGGAGCTCTTTTAGCTGCTC [1860]
Human CTCA--GTCTTTGAGGGGATTGCAGAGGGG-GGTTGCTG--GAGCTCCTTTTAGCTGCTC [1860]
Pig CTCA--GTCTTTGAGGGGAT---GGGGGTGTTGTTGCTG---GAGCTCTTTTAGCTGCTC [1860]
Mouse CTCT--GTCTTTGAGGAGA----GGTGGAG----AGCTG----- [1860]

Cow TGAGGGGGATTCT-TAGGA GGGGATTGGGGCT----GGGGG-TTGGGGGGCAGGAAGCTG [1920]
Human TGAAGGGGATTCTGTGTGA GGGGATTGGGACT----GGGGGGTTGGGGAGCAGGAAGCAG [1920]
Pig TGAAGGGGATTCTGTGTGA GGGGATTGGGGCT----GGGGGGTTGGGGGGCAGGAAGCTG [1920]
Mouse ---GGGAAGTCTTGTGTGA GGGGATTGGGGCTCAGGAGGGGGTTGGGGAGCAGGAAGTTG [1920]

Cow TCCCCAGGGGAGCCATCCAGGCCCATTTCAAGGGTTGAGCACTTGTTTAGGGTTAGAGCTG [1980]
Human TCCCCAGGGGAGCCATCCAGGCCCATTTCAAGGGTTGAGCACTTGTTTAGGGTTAGAGCTG [1980]
Pig TCCCCAGGGGAGCCATCCAGGCCCATTTCAAGGGTTGAGCACTTGTTTAGGGTTAGAGCTG [1980]
Mouse TCCCCAGGGGAGCCATCCTGGCCCATTTCAAGGGTTGAGTACTTGTTTAGGGTTAGAGCTG [1980]

1B (PE)

Cow CCCCCCTCTGGGGACCAGGATTGTCCAGCCAAGGCCATTGTCCGGGCCCTTCCCCCAGTC [2040]
Human CCCCCCTCTGGGGACCGGGATTGTCCAGCCAAGGCCATTGTCCCTGCCCCCTTCCCCCAGTC [2040]
Pig CCCCCCTCTGGGGACCAGGATTGTCCAGCCAAGGCCATTGTCCGGCCCCCTTCCCCCAGTC [2040]
Mouse CCCCCCTCTGGGGACCAGGATTGTCCAGCCAAGGCCATTGTCCCTGCCCCCTTCCCCCAGTC [2040]

Cow CCTCCCAAGCCCCCTTTGAACCTGAAGTCAGATATTT-TT-TTTCTCCCC-T-TCTACCTC [2100]
Human CCTCCCAAGCCTTCTTTGAACCTGAAGTCAGATATTT-TT-TCTCCACAC-C-CCCCACCC [2100]
Pig CCTCCCAAGCCTCTTTGAACCTGAAGTCAGATATTT-TTCTCTCCCCC-CACCTCCCTC [2100]
Mouse CCTCCCAAGCCCCCTTTGAACCTGAAGTCAGATATTTCTTCTCTTACCCACCTCCCACCC [2100]

Cow CTAGGCTTTTCCCACCCAGGGCCTAGGGCTGGAGGTCTGGGGT-GGTAGGAGGGGG-AGG [2160]
Human CCTGGTTTTTCCCACCCAGGGCCTAGGGCTGGAGGCTGGGCCAGGGAGGTGGGGG-AGG [2160]
Pig CTTGGCTTTTCCCACCCAGGGCCTAGGGGTGGAGGCCAGATT-GGGAGGTGGGGG-AGG [2160]
Mouse GTTGGGTTTTCTCCACCCAGGAACTAGG-CTGGAAGCCTGGGATGAGGAGGTGGGGGGAGG [2160]

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Cow	GAGAACCT--TCAACTGTGGTTCTAGATATTTGGGTCTCTG--AAGAGG----GGGGCAA	[2220]
Human	GAGAACGGGGCCTACCGTGGTATTAGATGTCTGAGTTTGGTTGAGAGG----GGAGCAA	[2220]
Pig	GAGAACAG--TCAACTATGGGGCTAGATATTTGGGTCCCTGAAGGGGGGCTGGGGGACAA	[2220]
Mouse	GAGAACTG--AGAATCTTGAGGAAAGAGGCCCGCCTTAAGTGTGAGG-----GGAT	[2220]
Cow	GGAACCTGATGCACG---GGACCCACAGTGAGGGACCCGTGGTGTGGTGT--GTCCAATC	[2280]
Human	GGAACCTGATGTGCA---GGTTCCATAGTGAGGGGGGCCAAAGCGG-GT--GTCTTATC	[2280]
Pig	GGAACCTGATGTGCGCGGGGACCCACAGCGGGGGACCTGCGAGCGGGTGTCCGATTGATT	[2280]
Mouse	GGAGCCTGG-GTGCA---GGTCTTATGGGGGTTGGGGGGTGGT-TAGTGTCTAATCTACC	[2280]
Cow	CCTCTGGCTGGACAAAGGTAGGGAGACTCAGGCCTAGTCAGTCCAGAGCCTGGCCCC---	[2340]
Human	ACTCTGTTTTAGCAAAGGTTGGGAAACTGAGGCCAGTCAGTCCAAAGTCTGGTCCCTTG	[2340]
Pig	CCTCTGCCTGCACAAAGATTGGGAGACTCAGGCCAGTCCATC--GAGCTTGATCCCTGG	[2340]
Mouse	AACCTGGAC-AACACAAGATGGAATACT-GTGCTCTGAAAACGCAGAGCCAGCACTTCT-	[2340]
Cow	----GAAAGTAGGGTTTCCATCCCTGGGTCTGGTAGGTGAGGGGCCTCTGGAGTCAG---	[2400]
Human	AAGGGGAAGTAGGGAC-CAACCCCTTAGTCTGTTAGATGAGGAGAGTCTGGAGTCTGATT	[2400]
Pig	AAGGGAAAATGGGGGTTCCATCCCTGGGTCTGGTGA-AGGGAGGCCCCGGAACCCG---	[2400]
Mouse	-----CTGGGGTCTCTGGGGACATATCTGGTTG-----GGGCTCGGGTCCC---	[2400]
Cow	-----GAAAGCTGGGG-----ATGGAATGGAAGC-TGGTC	[2460]
Human	CTGGAAGACGGAGGGGTGGGGGGATGGGGGGTGGGGGGATATAGCACGGAGGCCTTGTC	[2460]
Pig	-----GAAACTG-----TACGGAATGGAAGC-CCGTG	[2460]
Mouse	-----ATGGTGTAGAGCC----TC	[2460]
Cow	TGGCAGCCTGCCCCCTGGTGATGGGGTGGATTTTAGCAGGCTGGGCAGAGGGGTACCAGGC	[2520]
Human	TGGCAGTCTACTCTTGAAGATGGGGTGAAATTTGGCAGGCTGGGCAGATGG-TGCCAGGC	[2520]
Pig	TGGCAGTCTGCCCCCTGGTGA-GGGGTGGAATCTAATAGGCTGGGCGGATGGTTGCTGGGC	[2520]
Mouse	TAA-----ACTCTGGAGGACTGGAGGTGCAATGGCTGTCTTGTC---CTGGCCTTGGAC	[2520]
Cow	ATCACAGTTTTGAAAAG--TGAAAGTGTTAGTCA-T---GTCCGACTCTTTTTGACCC-	[2580]
Human	ACCCAGGCTGCGGGGTGGCTGGATTTGGCCAGTA-TCGGGATGGGAATGCCTAGGATTCT	[2580]
Pig	ATCGCAGCTTTGGGGTGCCGGAATCTGGCCAGTAATCTAGTTGGGAATGCCTAGGTTCC-	[2580]
Mouse	AT--GGGCT--GAAATA-CTGGGTTCACCCA-----TATCTAGGACTC-	[2580]
Cow	--ACAGATTGTAGCCCGCC----GAGTTCCCTCTGTCCATGGGATTTCCAG-GCAAGCAT	[2640]
Human	GGATGGATCGGGGGAAGGCATAAGGGAGCAGCTGGCCATTGTGCTTATGGCTGTTGATGC	[2640]
Pig	---CGGACTGGGGGT-----	[2640]
Mouse	---TAGACGGGTGGG-----	[2640]
Cow	ACTGGAGTGGGTGCGCCATTTCTTTCTTCAGGAGATCTTC-----CCAAC	[2700]
Human	ATTGAGGGATAGCGCCACACACACATTCAATAAAATTTGAGGAGCTGAGAGGGTGACTGGC	[2700]
Pig	-----	[2700]
Mouse	-----	[2700]
Cow	CC----AGGGATACAACCAG-GGTCTCTGGCATTGCAGGCAGATTCTTTATCATCTGAGC	[2760]
Human	CCCTGAAGGCACAGTGCCAGAGGTCTGTGGAGAGGGGTCAAGCACCTGGGTTCCCTGAAG	[2760]
Pig	-----	[2760]
Mouse	-----	[2760]
Cow	CACCAGG-----GAAACGAATCTGCCCAGTTG-----TCTAAA-----	[2820]
Human	AACATGGAGGTGTGGGAGTGATTCCAGACAGCTGGGATGTGCAGAGCCTGAGAGAGTGCC	[2820]
Pig	-----GAG-----	[2820]
Mouse	-----	[2820]
Cow	-----TGGGAACTGC---CTAGGT-----TCCTGGACTGGGATGCT	[2880]
Human	AGGGAGCGGGTTGGGAGTTGAAAGTTGGGTGTGGTGGCTCACGCCTTTAATCATGACACT	[2880]
Pig	-----	[2880]
Mouse	-----	[2880]

Cow GGAGGACAACGGGGAAGGAGCCTGTTAAGAATTGAGGGGTAGCCCCAGTGGGACTTGACA [2940]
Human GGGCGGCAGAGGCGGGAGGATTTCTTGAGGACAGGAATTCAAGACCAGCCTGGGT-AACA [2940]
Pig ----GGCAGAGAG-----CAGGAATTGAGGAGTAGCTCCGGCAGGACTTAGCA [2940]
Mouse -----TAAGCAAGAACTGAGGAGTGGCCCCAGAAATAATTGGCA [2940]

Cow CATAACAGCATAAATGTGTTTGAGGAGTTGAGAGGGTGGCTGGTCTCAGGTGCCAGGGTGT [3000]
Human TAGCAAGGCCCCATCTCTACTAAAAATAAAAAAACTAACAGGGCACAGTGGTCCAAGCCT [3000]
Pig CAGACA--CCAGACCTGTGTGAGGACCTGAGAGGGTCGCTGGG----GTCCCTTGAGGAG [3000]
Mouse CA-----CGAACATTCAATGGATGTTTTAGGCTCTCCAGAG----GATGGCTGAGTGG [3000]

Cow CTGGAGAGGGGTCCTGAAGAACGTGCAG--GGGGTATGGAAGGGACCCCTCACCCCTGGT [3060]
Human GTAGTCCCAGCCACTTAGGAGGCTGGAGCAGAAGGATTGCTTTGGCCCAGTAGATCGAGG [3060]
Pig ACAGTGCCAGGGTCTTTCGAAGAGGGGTCC-AACACCTGGCTC---CCCGACAGCCCCAAT [3060]
Mouse GCTGTAAGGACAGGCCGAGAGGGTGCAGT-GCCAACAGGCTTTG--TGGTGCGATGGGGC [3060]

Cow GTATGT-GGGCCTGG-GGAGGGCTGGGCAGC----CTGTTGGGAGCTGGAAGTGAAGGCC [3120]
Human CTACATTGAGCCATC-ATTGTACTCCACTGCACTCCAGTCTGGGCAACAAAGTGAGACCC [3120]
Pig GTGCACAGAGCAGTGGAGAGGGCCGGGCGGC----CGGTTGGGAGTTGGAGGTGAAGGCC [3120]
Mouse ATCCGAGCAACTGGTTTGTGAGGTGTCCGGT----GACCCAAGGCAGGGGTGAGAGGACC [3120]

Cow CGCATGGGGGACCTGCACCGAGAG-----TCTAGGAGTCTGGGGCCTGGA-----GAG [3180]
Human TGTCTTAAAAAATAAAAAATAAAAAAAGTTTCTGTGGGGGACCTGCACTGAGGTCCTGGAG [3180]
Pig -GCATGGGGGACCTGCACCAAGGG-----CCTGGGGACC--GCA-----GAG [3180]
Mouse ----TTGAAGGTTGAAAATGAAGG-----CCTCCTGGGGTCCCGTCTTAAG-----GGT [3180]

Cow GGGCCTGGGTGGAGATCCCTGGCTTTCCCTTCCA--GACACCACCGCCACCAGCA---G [3240]
Human GGGCGCCAGTTGTGTCTCCCGGTTTTCCCTTCCACAGACACCATTGCCACCACCATTAG [3240]
Pig GCGCCCGGGCGGACCTCTCCGACTTTCGCCCTCGA--GACACCACCGCCACCAGCC---A [3240]
Mouse TGTCTGTCCAGACGTCCCCAACCTCCGTCTGGAA--GACACA-----G [3240]

Cow GCAAACACCCTCCGCCTCAGTTTCTCCACCCCCACCGTCCCTTCCCCCCACCCATCCAG [3300]
Human GCAAACATCCTTCGCCTCAGTTTCTCC--CCCCACC-TCCCTCTCCTCCACCCATCCAG [3300]
Pig GCAAACACCCTCCGCCTCAGTTTCTCCACCCCCACCGACCC-CTCCCCCACCCATCCAG [3300]
Mouse GCAGATAGCGCTCGCCTCAGTTTCTCCACCCCCACAGCTCTGCTCCTCCACCCACCCAG [3300]

Cow GGGGCGGGGCCAGAGGTCAAGGCTAGTGGGTGGGATTGGGGAGGGAGAGAGGTGTTGAGC [3360]
Human GGGGCGGGGCCAGAGGTCAAGGCTAGTGGGTGGGACTGGGGAGGGAGAGAGGGGTTGAGT [3360]
Pig GGGGCGGGGCCAGAGGTCAAGGCTAGTGGGTGGGATTGGGGAGGGAGAGAGGTGTCGAGC [3360]
Mouse GGGGCGGGGCCAGAGGTCAAGGCTAGAGGGTGGGATTGGGGAGGGAGAG-----GTGAAAC [3360]

Sp1/Sp3 HRE

Cow AGTCTC-TAGGAGATCCCTCGTTTTCTTAGGCCCCCGGCTCGGGGTGCCTTCCTTCCCC [3419]
Human AGTCCC-TTCGCAAGCCCTCATTTACACAGGCCCCCGGCTTGGGGCGCCTTCCTTCCCC [3419]
Pig AGTCCCCTTGGAGAGCCCTGGTTTTACTGGGCCCCCGGCTTGGGGCGCCTTCCTTCCCC [3419]
Mouse CGTCCC-TAGGTGAGCCGTCTTTCCACAGGCCCCCGGCTCGGGGTGCCACCTTCCCC [3419]

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Supplementary Figure 1. Alignment of porcine Oct4 5' upstream regulatory sequences (URSs) with its human, cow and mouse orthologs. Four conserved region appear in shades of yellow. The HRE site, 2A box in DE, 1A and 1B box in PE have been underlined. The regulatory protein binding sites are circled.