

Supplementary Table 3. Sequencing and alignment of *wzm-wzt* from Rev1, Rev1Δ*wzm*, Rev1Δ*wzt* and Rev1Δ*wzm*Δ*wzt*

Strain	Sequence (5'→3')	bp
Rev1	GTGAGACGATTTCTGATGATATCGTATATGGCTAATGCTGGAAAGGTACGCCACTTCTGGTGGCACCTTTCAATGCTGATTTACGTGGGCGCTTCAGGCGGTCTCTCTTGGGAATATTA	120
Rev1Δ <i>wzm</i>	GTGAGACGATTTCTGATGATATCGTATATGGCTAATGCTGGAAAGGTACGCCACTTCTGGTGGCACCTTTCAATGCTGATTTACGTGGGCGCT-----	94
Rev1Δ <i>wzt</i>	GTGAGACGATTTCTGATGATATCGTATATGGCTAATGCTGGAAAGGTACGCCACTTCTGGTGGCACCTTTCAATGCTGATTTACGTGGGCGCTTCAGGCGGTCTCTCTTGGGAATATTA	120
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	GTGAGACGATTTCTGATGATATCGTATATGGCTAATGCTGGAAAGGTACGCCACTTCTGGTGGCACCTTTCAATGCTGATTTACGTGGGCGCT-----	94
Rev1	TGGGCAGTTATACAGCCACTAGCGCTCACGCTGCTACTGCTTTCTGTTTCTAAATTGTTGAATCAAAGTATATCTGCATATGCCCCCTATATTCTATCTGGGATTTATCTGGGAA	240
Rev1Δ <i>wzm</i>	-----	95
Rev1Δ <i>wzt</i>	TGGGCAGTTATACAGCCACTAGCGCTCACGCTGCTACTGCTTTCTGTTTCTAAATTGTTGAATCAAAGTATATCTGCATATGCCCCCTATATTCTATCTGGGATTTATCTGGGAA	240
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	-----	95
Rev1	TACATATCATTTACAGTGGTTGGTGGCTCAACAGCGCTTGCAAGCCGATGCATATATAAAGCAAACCGAAATCCTCTTGCAATTTACACGTTAGGAACACTGTTTCTGGCTTGGTC	360
Rev1Δ <i>wzm</i>	-----	95
Rev1Δ <i>wzt</i>	TACATATCATTTACAGTGGTTGGTGGCTCAACAGCGCTTGCAAGCCGATGCATATATAAAGCAAACCGAAATCCTCTTGCAATTTACACGTTAGGAACACTGTTTCTGGCTTGGTC	360
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	-----	95
Rev1	GTATTATCCGTAGCAAGTATCTCCCTATTCGGGTGGGTACTTATCATGTTTCTGAAAACCTCTCGCTTTCATGGTTAGCAATACCAACTTTGCTACCCATCCTTGCTTTGATAGTTTGG	480
Rev1Δ <i>wzm</i>	-----	95
Rev1Δ <i>wzt</i>	GTATTATCCGTAGCAAGTATCTCCCTATTCGGGTGGGTACTTATCATGTTTCTGAAAACCTCTCGCTTTCATGGTTAGCAATACCAACTTTGCTACCCATCCTTGCTTTGATAGTTTGG	480
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	-----	95
Rev1	CCGCTTGCCACAATCGTCGGCTACATCGGCCAAGATTTGAGATCTGCCGAATGCTCTGGCGCTCGTGTACAGGCAGCTTGGTTTGTTCGCCGGTCTATTTTAAAGAATCGATGTTT	600
Rev1Δ <i>wzm</i>	-----	95
Rev1Δ <i>wzt</i>	CCGCTTGCCACAATCGTCGGCTACATCGGCCAAGATTTGAGATCTGCCGAATGCTCTGGCGCTCGTGTACAGGCAGCTTGGTTTGTTCGCCGGTCTATTTTAAAGAATCGATGTTT	600
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	-----	95
Rev1	AGGCAGGGTGGATTGAATGCATTCGTTGATTATAACCCATTTACCACGTGATGCAGATTCTAAGAGCCCCTGTCTTTATGGGGAATGGCTACGGCTACCAATTACATTTGGTGCTTA	720
Rev1Δ <i>wzm</i>	-----	95
Rev1Δ <i>wzt</i>	AGGCAGGGTGGATTGAATGCATTCGTTGATTATAACCCATTTACCACGTGATGCAGATTCTAAGAGCCCCTGTCTTTATGGGGAATGGCTACGGCTACCAATTACATTTGGTGCTTA	720
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	-----	95
Rev1	GGTGTGAGCCTCCTCTAACCTGCGTGGCAGTAGCTGTGGGGATGCGTGCGGAGAAGAGAGCCATTTTTTACCTATGATCCAGCCATCGATTACCTGTCAAATGTTTCATCTGCACTACG	840
Rev1Δ <i>wzm</i>	-----TAACCTGCGTGGCAGTAGCTGTGGGGATGCGTGCGGAGAAGAGAGCCATTTTTTACCTATGATCCAGCCATCGATTACCTGTCAAATGTTTCATCTGCACTACG	198
Rev1Δ <i>wzt</i>	GGTGTGAGCCTCCTCTAACCTGCGTGGCAGTAGCTGTGGGGATGCGTGCGGAGAAGAGAGCCATTTTTTACCTATGATCCAGCCATCGATTACCTGTCAAATGTTTCATCTGCACTACG	840
Rev1Δ <i>wzm</i> Δ <i>wzt</i>	-----TAACCTGCGTGGCAGTAGCTGTGGGGATGCGTGCGGAGAAGAGAGCCATTTTTTACCTATGATCCAGCCATCGATTACCTGTCAAATGTTTCATCTGCACTACG	198

Rev1	CTGCATCAGCGTTCAAAGAAGCGCTCAGTCAAACTCTAGTAAACGCCTTATTGAGTATGCGGCCGAGCGCAGGAGCAAACATTGAAGACATCCATGCCCTAAAGGGTATTTCTGTAGATA	960
Rev1Δwzm	CTGCATCAGCGTTCAAAGAAGCGCTCAGTCAAACTCTAGTAAACGCCTTATTGAGTATGCGGCCGAGCGCAGGAGCAAACATTGAAGACATCCATGCCCTAAAGGGTATTTCTGTAGATA	318
Rev1Δwzt	CTGCATCAGCGTTCAAAGAAGCGCTCAGTCAAACTCTAGTAAACGCCTTATTGAGTATGCGGCCGAGCGCAGGAGCAAACATTGAAGACATCCATGCCCTAAAGGGTATTTCTGTAGATA	960
Rev1ΔwzmΔwzt	CTGCATCAGCGTTCAAAGAAGCGCTCAGTCAAACTCTAGTAAACGCCTTATTGAGTATGCGGCCGAGCGCAGGAGCAAACATTGAAGACATCCATGCCCTAAAGGGTATTTCTGTAGATA	318
Rev1	TAGCGCGGGGCGAACGCGTTGCCCTGATAGGTCAACAACGGGGCTGGCAAAGTACGTTCTTGAAAATATAGCCGGTCTCTACCCTATATCATCTGGGACATTAAGTACGCGGTACCG	1080
Rev1Δwzm	TAGCGCGGGGCGAACGCGTTGCCCTGATAGGTCAACAACGGGGCTGGCAAAGTACGTTCTTGAAAATATAGCCGGTCTCTACCCTATATCATCTGGGACATTAAGTACGCGGTACCG	438
Rev1Δwzt	TAGCGCGGGGCGAACGCGTTGCCCTGATAGGTCAACA-----	997
Rev1ΔwzmΔwzt	TAGCGCGGGGCGAACGCGTTGCCCTGATAGGTCAACA-----	355
Rev1	TAAGATCCCTGTTTCGATATTGGTCTTGGGTTTGAGCCTGATGCAACTGGCCGTGAGAATATTTCTTACCCTGGGTTGCTTCTCGGACTAACGCCACGTTTCATGCGAGAGATCGAGGATG	1200
Rev1Δwzm	TAAGATCCCTGTTTCGATATTGGTCTTGGGTTTGAGCCTGATGCAACTGGCCGTGAGAATATTTCTTACCCTGGGTTGCTTCTCGGACTAACGCCACGTTTCATGCGAGAGATCGAGGATG	558
Rev1Δwzt	-----	997
Rev1ΔwzmΔwzt	-----	355
Rev1	AGATCATCGAGTTCGCGGATCTCGGCGATTTTATCGATTATCCAATCAAACTTATTCTGCCGGCATGCAAGTTCGGCTCGCCTTCGCGATTTGACAGCAGTCGACGGCGACATACTCC	1320
Rev1Δwzm	AGATCATCGAGTTCGCGGATCTCGGCGATTTTATCGATTATCCAATCAAACTTATTCTGCCGGCATGCAAGTTCGGCTCGCCTTCGCGATTTGACAGCAGTCGACGGCGACATACTCC	678
Rev1Δwzt	-----	997
Rev1ΔwzmΔwzt	-----	355
Rev1	TTCTAGACGAAGTTATAGGTGCAGGTGATGCCGCATTCATGACTAAGGCGAAGGCCCGCATAATGAATATGGTCGAGAAGGCTGAGTAATGGTTCTAGCAAGCCATGACCTTGCGAACG	1440
Rev1Δwzm	TTCTAGACGAAGTTATAGGTGCAGGTGATGCCGCATTCATGACTAAGGCGAAGGCCCGCATAATGAATATGGTCGAGAAGGCTGAGTAATGGTTCTAGCAAGCCATGACCTTGCGAACG	798
Rev1Δwzt	-----CAAGCCATGACCTTGCGAACG	1017
Rev1ΔwzmΔwzt	-----CAAGCCATGACCTTGCGAACG	375
Rev1	TCCGTGAGCTTTGCACACGAGCATTGGTTTTCAAAGCCGGCACAATTGCATTTGATGGCAGGGTAGAAGACGCGATTTCTTCTATAACTCGGGAATGGGAGCTATAGCATGA	1553
Rev1Δwzm	TCCGTGAGCTTTGCACACGAGCATTGGTTTTCAAAGCCGGCACAATTGCATTTGATGGCAGGGTAGAAGACGCGATTTCTTCTATAACTCGGGAATGGGAGCTTTAACAATGA	911
Rev1Δwzt	TCCGTGAGCTTTGCACACGAGCATTGGTTTTCAAAGCCGGCACAATTGCATTTGATGGCAGGGTAGAAGACGCGATTTCTTCTATAACTCGGGAATGGGAGCTATAGCATGA	1130
Rev1ΔwzmΔwzt	TCCGTGAGCTTTGCACACGAGCATTGGTTTTCAAAGCCGGCACAATTGCATTTGATGGCAGGGTAGAAGACGCGATTTCTTCTATAACTCGGGAATGGGAGCTATAGCATGA	488

Sequencing was performed with F7 *wzm* and R7 *wzt* pair of primers; ATG start and TGA stop codons are underlined.