

**Figure S1:** Overview of the developed fusion primers for the Illumina HTS system. The different primers contain in line tags to distinguish between multiplexed samples and include P5 or P7 Illumina flow cell bind.

**A) P5 Primers**

P5\_fwhF1\_0 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTYTCHACWAAYCAYAARGAYATYGG  
P5\_fwhF1\_1 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTGYTCHACWAAYCAYAARGAYATYGG  
P5\_fwhF1\_2 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTTCYTCHACWAAYCAYAARGAYATYGG  
P5\_fwhF1\_B AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTAAYTCHACWAAYCAYAARGAYATYGG  
P5\_fwhF1\_3 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTCTGYTCHACWAAYCAYAARGAYATYGG  
P5\_fwhF1\_4 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTTCACYTCHACWAAYCAYAARGAYATYGG  
P5\_fwhR2\_0 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTGTRATWGCHCCDGCAARWACWGG  
P5\_fwhR2\_1 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTTGTRATWGCHCCDGCAARWACWGG  
P5\_fwhR2\_2 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTGAGTRATWGCHCCDGCAARWACWGG  
P5\_fwhR2\_3 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTGCCGTRATWGCHCCDGCAARWACWGG  
P5\_fwhR2\_C AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTCTAGTRATWGCHCCDGCAARWACWGG  
P5\_fwhR2\_4 AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACACGACGCTCTTCCGATCTAATCGTRATWGCHCCDGCAARWACWGG

flow cell bind P5

sequ primer 1 bind

**N** = shift (Lundberg et al. 2013)

**B) P7 Primers**

P7\_fwhR1\_0 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTARTCARTTWCRAAHCHCC  
P7\_fwhR1\_1 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTGARTCARTTWCRAAHCHCC  
P7\_fwhR1\_2 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTACARTCARTTWCRAAHCHCC  
P7\_fwhR1\_3 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTCTAARTCARTTWCRAAHCHCC  
P7\_fwhR1\_C CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTCGTARTCARTTWCRAAHCHCC  
P7\_fwhR1\_4 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTTACCARTCARTTWCRAAHCHCC  
P7\_fwhF2\_0 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTGGDACWGGWTGAACWGTWTAYCCHCC  
P7\_fwhF2\_1 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTCGGDACWGGWTGAACWGTWTAYCCHCC  
P7\_fwhF2\_2 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTATGGDACWGGWTGAACWGTWTAYCCHCC  
P7\_fwhF2\_B CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTAAGGDACWGGWTGAACWGTWTAYCCHCC  
P7\_fwhF2\_3 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTCGAGGDACWGGWTGAACWGTWTAYCCHCC  
P7\_fwhF2\_4 CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCTGCTGAACCGCTCTTCCGATCTTCCTGGDACWGGWTGAACWGTWTAYCCHCC

flow cell bind P7

sequ primer 2 bind

**N** = shift (Lundberg et al. 2013)