

Supplemental data 3. Primer sequences

Primers K-seq

In red k-mers sequences

Wheat

adaptF-9W TCG TCG GCA GCG TCA GAT GTG TAT AAG AGA CAG NNN GAC GTA TCA
adaptR-3W GTC TCG TGG GCT CGG AGA TGT GTA TAA GAG ACA GNN NTG TTC ATC C
adaptR-8W GTC TCG TGG GCT CGG AGA TGT GTA TAA GAG ACA GNN NTT CCT CTT C

Dog

adaptF-2D TCG TCG GCA GCG TCA GAT GTG TAT AAG AGA CAG NNN GAG AGG CAG
adaptR-6D GTC TCG TGG GCT CGG AGA TGT GTA TAA GAG ACA GNN NAA GGG AAG A
adaptR-9D GTC TCG TGG GCT CGG AGA TGT GTA TAA GAG ACA GNN NCT CCT TTC C

Tomato

adaptF-4T TCG TCG GCA GCG TCA GAT GTG TAT AAG AGA CAG NNN TCA TCT TC
adaptF-5T TCG TCG GCA GCG TCA GAT GTG TAT AAG AGA CAG NNN CAA AGA AG
adaptR-5T GTC TCG TGG GCT CGG AGA TGT GTA TAA GAG ACA GNN NTG TTG ATG

Primers PCR

IDT-8nt-NXT_i7_1 CAAGCAGAAGACGGCATAACGAGATACGATCAGGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_2 CAAGCAGAAGACGGCATAACGAGATTCGAGAGTGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_3 CAAGCAGAAGACGGCATAACGAGATCTAGCTCAGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_4 CAAGCAGAAGACGGCATAACGAGATATCGTCTCGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_5 CAAGCAGAAGACGGCATAACGAGATTCGACAAGGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_6 CAAGCAGAAGACGGCATAACGAGATCCTTGGAAGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_7 CAAGCAGAAGACGGCATAACGAGATATCATGCGGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_8 CAAGCAGAAGACGGCATAACGAGATTGTTCCGTGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_9 CAAGCAGAAGACGGCATAACGAGATATTAGCCGGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_10 CAAGCAGAAGACGGCATAACGAGATCGATCGATGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_11 CAAGCAGAAGACGGCATAACGAGATGATCTTGCGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i7_12 CAAGCAGAAGACGGCATAACGAGATAGGATAGCGTCTCGTGGGCTC*G*G
IDT-8nt-NXT_i5_1 AATGATACGGCGACCACCGAGATCTACACATATGCGCTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_2 AATGATACGGCGACCACCGAGATCTACACTGGTACAGTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_3 AATGATACGGCGACCACCGAGATCTACACAACCGTTCTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_4 AATGATACGGCGACCACCGAGATCTACACTAACCGGTTCTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_5 AATGATACGGCGACCACCGAGATCTACACGAACATCGTCTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_6 AATGATACGGCGACCACCGAGATCTACACCCTTGTAGTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_7 AATGATACGGCGACCACCGAGATCTACACTCAGGCTTTCGTCGGCAGCG*T*C
IDT-8nt-NXT_i5_8 AATGATACGGCGACCACCGAGATCTACACGTTCTCGTTCGTCGGCAGCG*T*C

nucleotides labelled with * have a phosphotioate bond to prevent primer degradation by the DNA polymerase