

Table S2. Oligonucleotides used in this study.

Oligo name	Sequence (5' to 3')	PAGE purified	Index identifier	Index sequence	Notes
pRL27_Eng_oligo19	GATGTCCACGAGGTCTCTNNNNNNNNNNNNNNNNNN NNNNCGTACGCTGCAGGTCGAC				source of barcodes
Amp_barcode_s_FOR_Gateway_SbfI	GGGGACAAGTTTGTACAAAAAAGCAGGCTCCTGC AGGGATGTCCACGAGGTCTCT				amplify barcodes with BP Gateway cloning site and SbfI site (PAGE purified)
Amp_barcode_s_REV_Gateway_FseI	GGGGACCACTTTGTACAAGAAAGCTGGGTGGCCG GCCGTGCACCTGCAGCGTACG				amplify barcodes with BP Gateway cloning site and FseI site (PAGE purified)
pHIMAR_eng_oligo1	CGCGAACCCAGAGTCCCGC				amplify pHIMAR-RB1 to delete region
pHIMAR_eng_oligo2	GTTGGGTAACGCCAGGGTTTTTC				amplify pHIMAR-RB1 to delete region
pHIMAR_eng_oligo4	ACACTGGCAGAGCATTACGCCCTGCAGGATGCAAT GGGCCGGCCAGACCGGGGACTTATCAGCCAACCT GTTATGT				linker region
pHIMAR_eng_oligo5	GCGGGACTCTGGGGTTCGCGACACTGGCAGAGC ATTACGC				amplify linker region
pHIMAR_eng_oligo6	GAAAACCCTGGCGTTACCCAACACATAACAGGTTG GCTGATA				amplify linker region
pRL27_Eng_oligo22	GGCTTGTTTTATCAGCCATC				amplify pRL27 to delete region
pRL27_Eng_oligo23	GCGTAATGCTCTGCCAGTGT				amplify pRL27 to delete region
pRL27_Eng_oligo24	CCTGCAGGATGCAATGGGCCGGCCGGTTGAGATG TGATAAGAGACAGTCGAC				linker region
pRL27_Eng_oligo25	ACACTGGCAGAGCATTACGCCCTGCAGGATGCAAT GGGCC				amplify linker region
pRL27_Eng_oligo26	GATGGCTGATGAAACCAAGCCGTCGACTGTCTCTT ATACAC				amplify linker region
EZ_Forward_Kan_pRL27	CTGTCTTTATACACATCTTGTGTCTCAAATCTCT GATGTTAC	yes			generate custom barcoded EZ-Tn5
EZ_Reverse_Kan_pRL27	CTGTCTTTATACACATCTGTCGACCTGCAGCGTA CGNNNNNNNNNNNNNNNNNNNNNAGAGACCTCGT GGACATCTTAGAAAACATCATCGAGCATCAA	yes			generate custom barcoded EZ-Tn5 transpososome
Mod2_Truseq	/5'P/GATCGGAAGAGCACACGTCTGAACTCCAGTCA	yes			Illumina adapter for TnSeq protocol; 5'
Mod2_TS_Univ	ACGCTCTTCCGATC*T	yes			Illumina adapter for TnSeq protocol; 3' T is phosphorothioate bonded
Nspacer_barseq_pHIMAR	ATGATACGGCGACCACCGAGATCTACACTCTTTCC CTACACGACGCTCTCCGATCTNNNNNNCGCCCT GCAGGGATGTCCACGAG	yes			TnSeq oligo for amplifying transposon insertion sites; used for P. inhibens, P. stutzeri, S. amazonensis, S.
Nspacer_barseq_universal	ATGATACGGCGACCACCGAGATCTACACTCTTTCC CTACACGACGCTCTCCGATCTNNNNNNGATGTCC ACGAGGTCT	yes			TnSeq oligo for amplifying transposon insertion sites; used for
P7_MOD_TS_index1	CAAGCAGAAGACGGCATAACGAGATCGTGATGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index1	ATCACG	indexed TnSeq oligo
P7_MOD_TS_index2	CAAGCAGAAGACGGCATAACGAGATACATCGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index2	CGATGT	indexed TnSeq oligo
P7_MOD_TS_index3	CAAGCAGAAGACGGCATAACGAGATGCCTAAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index3	TTAGGC	indexed TnSeq oligo
P7_MOD_TS_index4	CAAGCAGAAGACGGCATAACGAGATTGGTCAAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index4	TGACCA	indexed TnSeq oligo
P7_MOD_TS_index5	CAAGCAGAAGACGGCATAACGAGATCACTGTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index5	ACAGTG	indexed TnSeq oligo
P7_MOD_TS_index6	CAAGCAGAAGACGGCATAACGAGATATTGGCGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index6	GCCAAT	indexed TnSeq oligo
P7_MOD_TS_index7	CAAGCAGAAGACGGCATAACGAGATGATCTGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCT	yes	index7	CAGATC	indexed TnSeq oligo

P7_MOD_TS_index8	CAAGCAGAAGACGGCATAACGAGATTCAAGTGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index8	ACTTGA	indexed TnSeq oligo
P7_MOD_TS_index9	CAAGCAGAAGACGGCATAACGAGATCTGATCGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index9	GATCAG	indexed TnSeq oligo
P7_MOD_TS_index10	CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index10	TAGCTT	indexed TnSeq oligo
P7_MOD_TS_index11	CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index11	GGCTAC	indexed TnSeq oligo
P7_MOD_TS_index12	CAAGCAGAAGACGGCATAACGAGATTACAAGGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index12	CTTGTA	indexed TnSeq oligo
P7_MOD_TS_index13	CAAGCAGAAGACGGCATAACGAGATTTGACTGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index13	AGTCAA	indexed TnSeq oligo
P7_MOD_TS_index14	CAAGCAGAAGACGGCATAACGAGATGGAAGTGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index14	AGTTCC	indexed TnSeq oligo
P7_MOD_TS_index15	CAAGCAGAAGACGGCATAACGAGATTGACATGTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index15	ATGTCA	indexed TnSeq oligo
P7_MOD_TS_index16	CAAGCAGAAGACGGCATAACGAGATGGACGGTGA CTGGAGTTTCAGACGTGTGCTCTTCCGATCT	yes	index16	CCGTCC	indexed TnSeq oligo
Forward_primer_Nbarseq	CAAGCAGAAGACGGCATAACGAGCTCTTCCGATCTGATGTCCACGAGGTCTCT	yes			common F primer for BarSeq (used with "in-line" R primers)
H1_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTATCACGAGGTGACCTGCAGCGTACG	yes	H1	ATCACGA G	"in-line" indexed BarSeq R primer
H2_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTCGATGTTCTGTCGACCTGCAGCGTACG	yes	H2	CGATGTT C	"in-line" indexed BarSeq R primer
H3_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTTTAGGCGAGTGCACCTGCAGCGTACG	yes	H3	TTAGGCG A	"in-line" indexed BarSeq R primer
H4_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTTGACCAATGTGACCTGCAGCGTACG	yes	H4	TGACCAAT	"in-line" indexed BarSeq R primer
H5_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTACAGTGCTGTGACCTGCAGCGTACG	yes	H5	ACAGTGC T	"in-line" indexed BarSeq R primer
H6_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTGCCAATGTGTGACCTGCAGCGTACG	yes	H6	GCCAATG T	"in-line" indexed BarSeq R primer
H7_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTCAGATCGAGTGCACCTGCAGCGTACG	yes	H7	CAGATCG A	"in-line" indexed BarSeq R primer
H8_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTACTTGAAGTGCACCTGCAGCGTACG	yes	H8	ACTTGAAA	"in-line" indexed BarSeq R primer
H9_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTGATCAGTGGTGCACCTGCAGCGTACG	yes	H9	GATCAGT G	"in-line" indexed BarSeq R primer
H10_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTTCTACCTCGTGCACCTGCAGCGTACG	yes	H10	TCTACCTC	"in-line" indexed BarSeq R primer
H11_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTCTTGATGGTGCACCTGCAGCGTACG	yes	H11	CTTGATG	"in-line" indexed BarSeq R primer
H12_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTTAGCTTCCGTGCACCTGCAGCGTACG	yes	H12	TAGCTTCC	"in-line" indexed BarSeq R primer
H13_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTGGCTACCAAGTGCACCTGCAGCGTACG	yes	H13	GGCTACC A	"in-line" indexed BarSeq R primer
H14_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTCCTACACGACGCTCTTCCGATCTATGCACTTGTGACCTGCAGCGTACG	yes	H14	ATGCACTT	"in-line" indexed BarSeq R primer

H15_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGACGGAACGTC GACCTGCAGCGTACG	yes	H15	GACGGAA C	"in-line" indexed BarSeq R primer
H16_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTAGCCTTGGGTCTG ACCTGCAGCGTACG	yes	H16	AGCCTTG G	"in-line" indexed BarSeq R primer
H17_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCCGTAGAGGTCTG ACCTGCAGCGTACG	yes	H17	CCGTAGA G	"in-line" indexed BarSeq R primer
H18_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGTGAGACTGTCTG ACCTGCAGCGTACG	yes	H18	GTGAGAC T	"in-line" indexed BarSeq R primer
H19_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTAATGCTCAGTCTG ACCTGCAGCGTACG	yes	H19	AATGCTCA	"in-line" indexed BarSeq R primer
H20_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGCATCGTAGTCTG ACCTGCAGCGTACG	yes	H20	GCATCGTA	"in-line" indexed BarSeq R primer
H21_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCGAACAGCGTCTG GACCTGCAGCGTACG	yes	H21	CGAACAG C	"in-line" indexed BarSeq R primer
H22_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTCGGAAGGGTCTG GACCTGCAGCGTACG	yes	H22	TCGGAAG G	"in-line" indexed BarSeq R primer
H23_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTTCTGTGCGGTCTG ACCTGCAGCGTACG	yes	H23	TTCTGTC G	"in-line" indexed BarSeq R primer
H24_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGTACTCACGTCTG ACCTGCAGCGTACG	yes	H24	GTACTION C	"in-line" indexed BarSeq R primer
H25_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTAGTAATACGTCTG ACCTGCAGCGTACG	yes	H25	AGTAATAC	"in-line" indexed BarSeq R primer
H26_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCAAGATATGTCTG ACCTGCAGCGTACG	yes	H26	CAAGATAT	"in-line" indexed BarSeq R primer
H27_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTGTTGGTGTCTG ACCTGCAGCGTACG	yes	H27	TGTTTGG T	"in-line" indexed BarSeq R primer
H28_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCTCCAACCGTCTG ACCTGCAGCGTACG	yes	H28	CTCCAAC C	"in-line" indexed BarSeq R primer
H29_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTAAATTCTGGTCTG ACCTGCAGCGTACG	yes	H29	AAATTCTG	"in-line" indexed BarSeq R primer
H30_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCCCGCCAAGTCTG GACCTGCAGCGTACG	yes	H30	CCCGCCA A	"in-line" indexed BarSeq R primer
H31_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTACAAATAGTCTG ACCTGCAGCGTACG	yes	H31	TACAAATA	"in-line" indexed BarSeq R primer
H32_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGGGCTATAGTCTG ACCTGCAGCGTACG	yes	H32	GGGCTATA	"in-line" indexed BarSeq R primer
H33_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTTTCGGACGTCTG ACCTGCAGCGTACG	yes	H33	TTTCGGA C	"in-line" indexed BarSeq R primer
H34_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTGCGCGTCTGTC GACCTGCAGCGTACG	yes	H34	TGCGCGT C	"in-line" indexed BarSeq R primer
H35_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCCCGCTGGTCTG ACCTGCAGCGTACG	yes	H35	TCCCGCT G	"in-line" indexed BarSeq R primer

H36_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGTTTCAGGGTTCG ACCTGCAGCGTACG	yes	H36	GTTTCAG G	"in-line" indexed BarSeq R primer
H37_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGAGGGGGGTC GACCTGCAGCGTACG	yes	H37	GGAGGGG G	"in-line" indexed BarSeq R primer
H38_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGCTGTTAGGTTCG ACCTGCAGCGTACG	yes	H38	GCTGTTA G	"in-line" indexed BarSeq R primer
H39_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTGAGTGTGAGTTCG ACCTGCAGCGTACG	yes	H39	GAGTGTG A	"in-line" indexed BarSeq R primer
H40_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCGTCCCCGGTTC GACCTGCAGCGTACG	yes	H40	CGTCCCC G	"in-line" indexed BarSeq R primer
H41_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCCTCATCAGTTCG ACCTGCAGCGTACG	yes	H41	CCTCATCA	"in-line" indexed BarSeq R primer
H42_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCCACGACAGTTCG ACCTGCAGCGTACG	yes	H42	CCACGAC A	"in-line" indexed BarSeq R primer
H43_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTCATTGGCTGTTCG ACCTGCAGCGTACG	yes	H43	CATTGGC T	"in-line" indexed BarSeq R primer
H44_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTAGGGGCCCGTTC GACCTGCAGCGTACG	yes	H44	AGGGGCC C	"in-line" indexed BarSeq R primer
H45_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTACGACACTGTTCG ACCTGCAGCGTACG	yes	H45	ACGACAC T	"in-line" indexed BarSeq R primer
H46_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTACCGACGCGTTCG ACCTGCAGCGTACG	yes	H46	ACCGACG C	"in-line" indexed BarSeq R primer
H47_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTTATAGTATGTTCGA CCTGCAGCGTACG	yes	H47	TATAGTAT	"in-line" indexed BarSeq R primer
H48_R_primer_Nbarseq	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTAACTCAGTGTTCG ACCTGCAGCGTACG	yes	H48	AACTCAG T	"in-line" indexed BarSeq R primer
Barseq_P1	AATGATACGGCGACCACCGAGATCTACACTCTTTC CCTACACGACGCTCTCCGATCTNNNNNGTCGAC CTGCAGCGTACG	yes			Common primer for "truseq-indexed" BarSeq
Barseq_P2_IT001	CAAGCAGAAGACGGCATAACGAGATCGTGATGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT001	ATCACG	truseq-derived indexed BarSeq primer
Barseq_P2_IT002	CAAGCAGAAGACGGCATAACGAGATACATCGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CACGAGGTCTCT	yes	IT002	CGATGT	truseq-derived indexed BarSeq primer
Barseq_P2_IT003	CAAGCAGAAGACGGCATAACGAGATGCCTAAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT003	TTAGGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT004	CAAGCAGAAGACGGCATAACGAGATTGGTCAAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT004	TGACCA	truseq-derived indexed BarSeq primer
Barseq_P2_IT005	CAAGCAGAAGACGGCATAACGAGATCACTGTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT005	ACAGTG	truseq-derived indexed BarSeq primer
Barseq_P2_IT006	CAAGCAGAAGACGGCATAACGAGATATTGGCGTAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CACGAGGTCTCT	yes	IT006	GCCAAT	truseq-derived indexed BarSeq primer
Barseq_P2_IT007	CAAGCAGAAGACGGCATAACGAGATGATCTGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT007	CAGATC	truseq-derived indexed BarSeq primer

Barseq_P2_IT 008	CAAGCAGAAGACGGCATAACGAGATTCAAGTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT008	ACTTGA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 009	CAAGCAGAAGACGGCATAACGAGATCTGATCGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT009	GATCAG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 010	CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT010	TAGCTT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 011	CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT011	GGCTAC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 012	CAAGCAGAAGACGGCATAACGAGATTACAAGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT012	CTTGTA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 013	CAAGCAGAAGACGGCATAACGAGATTTGACTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT013	AGTCAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 014	CAAGCAGAAGACGGCATAACGAGATGGAAGTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT014	AGTTCC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 015	CAAGCAGAAGACGGCATAACGAGATTGACATGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT015	ATGTCA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 016	CAAGCAGAAGACGGCATAACGAGATGGACGGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT016	CCGTCC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 017	CAAGCAGAAGACGGCATAACGAGATCTCTACGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT017	GTAGAG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 018	CAAGCAGAAGACGGCATAACGAGATGCGGACGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT018	GTCCGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 019	CAAGCAGAAGACGGCATAACGAGATTTTACGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT019	GTGAAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 020	CAAGCAGAAGACGGCATAACGAGATGGCCACGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT020	GTGGCC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 021	CAAGCAGAAGACGGCATAACGAGATCGAAACGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT021	GTTTCG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 022	CAAGCAGAAGACGGCATAACGAGATCGTACGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT022	CGTACG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 023	CAAGCAGAAGACGGCATAACGAGATCCACTCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT023	GAGTGG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 024	CAAGCAGAAGACGGCATAACGAGATGCTACCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT024	GGTAGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 025	CAAGCAGAAGACGGCATAACGAGATATCAGTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT025	ACTGAT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 026	CAAGCAGAAGACGGCATAACGAGATGCTCATGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT026	ATGAGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 027	CAAGCAGAAGACGGCATAACGAGATAGGAATGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT027	ATTCTT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 028	CAAGCAGAAGACGGCATAACGAGATCTTTGGTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT028	CAAAAAG	truseq-derived indexed BarSeq primer

Barseq_P2_IT 029	CAAGCAGAAGACGGCATAACGAGATTAGTTGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT029	CAACTA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 030	CAAGCAGAAGACGGCATAACGAGATCCGGTGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT030	CACCGG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 031	CAAGCAGAAGACGGCATAACGAGATATCGTGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT031	CACGAT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 032	CAAGCAGAAGACGGCATAACGAGATTGAGTGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT032	CACTCA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 033	CAAGCAGAAGACGGCATAACGAGATCGCCTGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT033	CAGGCG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 034	CAAGCAGAAGACGGCATAACGAGATGCCATGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT034	CATGGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 035	CAAGCAGAAGACGGCATAACGAGATAAAATGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT035	CATTTT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 036	CAAGCAGAAGACGGCATAACGAGATTGTTGGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT036	CCAACA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 037	CAAGCAGAAGACGGCATAACGAGATATTCCGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT037	CGGAAT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 038	CAAGCAGAAGACGGCATAACGAGATAGCTAGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT038	CTAGCT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 039	CAAGCAGAAGACGGCATAACGAGATGTATAGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT039	CTATAC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 040	CAAGCAGAAGACGGCATAACGAGATTCTGAGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT040	CTCAGA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 041	CAAGCAGAAGACGGCATAACGAGATGCTGTCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT041	GACGAC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 042	CAAGCAGAAGACGGCATAACGAGATCGATTAGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT042	TAATCG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 043	CAAGCAGAAGACGGCATAACGAGATGCTGTAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT043	TACAGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 044	CAAGCAGAAGACGGCATAACGAGATATTATAGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT044	TATAAT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 045	CAAGCAGAAGACGGCATAACGAGATGAATGAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT045	TCATTC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 046	CAAGCAGAAGACGGCATAACGAGATTCCGGAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT046	TCCCGA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 047	CAAGCAGAAGACGGCATAACGAGATCTTCGAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT047	TCGAAG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 048	CAAGCAGAAGACGGCATAACGAGATTGCCGAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT048	TCGGCA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 049	CAAGCAGAAGACGGCATAACGAGATATGTTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT049	AAACAT	truseq-derived indexed BarSeq primer

Barseq_P2_IT 050	CAAGCAGAAGACGGCATAACGAGATTGCTTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT050	AAAGCA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 051	CAAGCAGAAGACGGCATAACGAGATGCATTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT051	AAATGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 052	CAAGCAGAAGACGGCATAACGAGATTTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT052	AACAAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 053	CAAGCAGAAGACGGCATAACGAGATCAAGTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT053	AACTTG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 054	CAAGCAGAAGACGGCATAACGAGATAGTCTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT054	AAGACT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 055	CAAGCAGAAGACGGCATAACGAGATTCGTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT055	AAGCGA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 056	CAAGCAGAAGACGGCATAACGAGATGTCTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT056	AAGGAC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 057	CAAGCAGAAGACGGCATAACGAGATCCTATTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT057	AATAGG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 058	CAAGCAGAAGACGGCATAACGAGATGTTTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT058	ACAAAC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 059	CAAGCAGAAGACGGCATAACGAGATAGATGTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT059	ACATCT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 060	CAAGCAGAAGACGGCATAACGAGATCTGGGTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT060	ACCCAG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 061	CAAGCAGAAGACGGCATAACGAGATGCCGGTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT061	ACCGGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 062	CAAGCAGAAGACGGCATAACGAGATTATCGTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT062	ACGATA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 063	CAAGCAGAAGACGGCATAACGAGATGAGAGTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT063	ACTCTC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 064	CAAGCAGAAGACGGCATAACGAGATTCTTCTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT064	AGAAGA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 065	CAAGCAGAAGACGGCATAACGAGATCTATCTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT065	AGATAG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 066	CAAGCAGAAGACGGCATAACGAGATGATGCTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT066	AGCATC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 067	CAAGCAGAAGACGGCATAACGAGATAGCGCTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT067	AGCGCT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 068	CAAGCAGAAGACGGCATAACGAGATCGGCCTGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT068	AGGCCG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 069	CAAGCAGAAGACGGCATAACGAGATCCGTATGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT069	ATACGG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 070	CAAGCAGAAGACGGCATAACGAGATTAGGATGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT070	ATCCTA	truseq-derived indexed BarSeq primer

Barseq_P2_IT 071	CAAGCAGAAGACGGCATAACGAGATATAGATGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT071	ATCTAT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 072	CAAGCAGAAGACGGCATAACGAGATGCGTGGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT072	CCACGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 073	CAAGCAGAAGACGGCATAACGAGATCATGGGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT073	CCCATG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 074	CAAGCAGAAGACGGCATAACGAGATTTGCGGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT074	CCGCAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 075	CAAGCAGAAGACGGCATAACGAGATCTAAGGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT075	CCTTAG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 076	CAAGCAGAAGACGGCATAACGAGATTTCTCGGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT076	CGAGAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 077	CAAGCAGAAGACGGCATAACGAGATCAGCAGGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT077	CTGCTG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 078	CAAGCAGAAGACGGCATAACGAGATGGTTTCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT078	GAAACC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 079	CAAGCAGAAGACGGCATAACGAGATTTATTCGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT079	GAATAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 080	CAAGCAGAAGACGGCATAACGAGATTCGTCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT080	GACGGA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 081	CAAGCAGAAGACGGCATAACGAGATTATATCGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT081	GATATA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 082	CAAGCAGAAGACGGCATAACGAGATAGCATCGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT082	GATGCT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 083	CAAGCAGAAGACGGCATAACGAGATCCTTGCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT083	GCAAGG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 084	CAAGCAGAAGACGGCATAACGAGATAAGTGCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT084	GCACTT	truseq-derived indexed BarSeq primer
Barseq_P2_IT 085	CAAGCAGAAGACGGCATAACGAGATTAAGGCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT085	GCCTTA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 086	CAAGCAGAAGACGGCATAACGAGATTGGAGCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT086	GCTCCA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 087	CAAGCAGAAGACGGCATAACGAGATTGTGCCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT087	GGCACA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 088	CAAGCAGAAGACGGCATAACGAGATCAGGCCGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT088	GGCCTG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 089	CAAGCAGAAGACGGCATAACGAGATGGTAGAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT089	TCTACC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 090	CAAGCAGAAGACGGCATAACGAGATCATTCAGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT090	TGAATG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 091	CAAGCAGAAGACGGCATAACGAGATATGGCAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT091	TGCCAT	truseq-derived indexed BarSeq primer

Barseq_P2_IT 092	CAAGCAGAAGACGGCATAACGAGATCCAGCAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT092	TGCTGG	truseq-derived indexed BarSeq primer
Barseq_P2_IT 093	CAAGCAGAAGACGGCATAACGAGATGCGCCAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT093	TGGCGC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 094	CAAGCAGAAGACGGCATAACGAGATTCGAAGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT094	TTCGAA	truseq-derived indexed BarSeq primer
Barseq_P2_IT 095	CAAGCAGAAGACGGCATAACGAGATGGAGAAGTGA CTGGAGTTCAGACGTGTGCTCTTCCGATCTGATGT CCACGAGGTCTCT	yes	IT095	TTCTCC	truseq-derived indexed BarSeq primer
Barseq_P2_IT 096	CAAGCAGAAGACGGCATAACGAGATAAACCTGTGAC TGGAGTTCAGACGTGTGCTCTTCCGATCTGATGTC CACGAGGTCTCT	yes	IT096	AGGTTT	truseq-derived indexed BarSeq primer