

Cat. #: 514136

This spec sheet is for Reference Purposes Only.

NEXTflex™ DNA BARCODE BLOCKERS – 48

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| APPLICATION: | The NEXTflex™ DNA Barcode Blockers are intended to prevent concatemerization of non-complimentary library fragments during solution-based hybridization assays. The NEXTflex™ HE Universal Oligo 1 is the common strand of NEXTflex™ DNA Barcodes and blocks the non-barcoded segment of the libraries prepared with NEXTflex™ DNA Barcodes. The NEXTflex™ INV-HE Index Oligos are designed to block the barcoded segment of the libraries prepared with NEXTflex™ DNA Barcodes. The use of NEXTflex™ HE Universal Oligo 1 and NEXTflex™ INV-HE Index Oligo Pools during the hybridization step significantly increases capture specificity. |
| AMOUNT: | 384 Nimblegen SeqCap EZ Reactions or 256 Agilent SureSelect XT2 Reactions Other solution-based hybridization systems are compatible, yielding varying number of reactions per kit. Please contact us for assistance in determining the amount of reactions for your particular application. |
| PURIFICATION: | HPLC |
| SHELF LIFE: | The shelf life is 12 months when stored under optimal conditions. |
| COMPONENTS: | NEXTflex™ HE Universal Oligo 1 (500 µM, 768 µL) NEXTflex™ INV-HE Index Oligos 1 – 48 (250 µM, 32 µL each) |
| STORAGE: | Store at -20 °C |
| SEQUENCES: | See page 2 |

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| NEXTflex™ | Sequence |
|----------------------|--|
| HE Universal Oligo 1 | 5'AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT |
| INV-HE Index | 5'CAAGCAGAAGACGGCATAACGAGAT XXXXXX GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT/3INVdT/ |
| PCR Oligo 1 | 5'AATGATACGGCGACCACCGAGATCTACAC |
| PCR Oligo 2 | 5'CAAGCAGAAGACGGCATAACGAGAT |

~~XXXXXX~~ denotes the inverse index region of the blocker strand. The inverse index sequences are listed below.

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| Index 1 | ACATCG |
| Index 2 | TGGTCA |
| Index 3 | CACTGT |
| Index 4 | ATTGGC |
| Index 5 | GATCTG |
| Index 6 | TACAAG |
| Index 7 | CGTGAT |
| Index 8 | GCCTAA |
| Index 9 | TCAAGT |
| Index 10 | CTGATC |
| Index 11 | AAGCTA |
| Index 12 | GTAGCC |
| Index 13 | TTGACT |
| Index 14 | GGAACT |
| Index 15 | TGACAT |
| Index 16 | GGACGG |
| Index 17 | CTCTAC |
| Index 18 | GCGGAC |
| Index 19 | TTTCAC |
| Index 20 | GGCCAC |
| Index 21 | CGAAAC |
| Index 22 | CGTACG |
| Index 23 | CCACTC |
| Index 24 | GCTACC |

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| Index 25 | ATCAGT |
| Index 26 | GCTCAT |
| Index 27 | AGGAAT |
| Index 28 | CTTTTG |
| Index 29 | TAGTTG |
| Index 30 | CCGGTG |
| Index 31 | ATCGTG |
| Index 32 | TGAGTG |
| Index 33 | CGCCTG |
| Index 34 | GCCATG |
| Index 35 | AAAATG |
| Index 36 | TGTTGG |
| Index 37 | ATTCCG |
| Index 38 | AGCTAG |
| Index 39 | GTATAG |
| Index 40 | TATGAG |
| Index 41 | TAGCGC |
| Index 42 | CGATTA |
| Index 43 | GCTGTA |
| Index 44 | ATTATA |
| Index 45 | GAATGA |
| Index 46 | TCGGGA |
| Index 47 | CTTCGA |
| Index 48 | TGCCGA |