

## Archer™ MBC Adapters Set C for Illumina® Platform

PI-AK0017-48

### Product Description

The Archer Molecular Barcode (MBC) Adapters are used in conjunction with the Archer FusionPlex™ or VariantPlex™ kits in order to create target-enriched libraries for next-generation sequencing on the MiSeq® and NextSeq® platforms.

Archer Illumina assays utilize dual-index barcoding to distinguish between samples. The first index is added just before Adapter Ligation and is embedded in the Archer MBC Adapters. The second index is added in Second PCR and is embedded in the Illumina Index 1 Primers within the Second PCR reaction.

In addition to this index, Archer MBC Adapters contain molecular barcodes – unique nucleotide sequences that can be used to differentiate individual nucleic acid molecules in a sample. Using Archer Analysis, individual MBCs in a sequencing reaction can be identified and the reads de-duplicated. MBCs can also be used to correct for late-cycle PCR artifacts or sequencing errors, enabling high-confidence calling of gene fusions, SNPs and other mutations.

**For Research Use Only.** *Not for use in diagnostic procedures.*

### Kit Contents

Part #	Name	Quantity	Storage Conditions
SA0052	Barcode Adapters C1-C8 for Illumina Platform	Barcoded adapters with a total of 8 different index sequences	2°C to 8°C
SA0053	Barcode Adapters C9-C16 for Illumina Platform	Barcoded adapters with a total of 8 different index sequences	2°C to 8°C
SA0054	Barcode Adapters C17-C24 for Illumina Platform	Barcoded adapters with a total of 8 different index sequences	2°C to 8°C
SA0055	Barcode Adapters C25-C32 for Illumina Platform	Barcoded adapters with a total of 8 different index sequences	2°C to 8°C
SA0056	Barcode Adapters C33-C40 for Illumina Platform	Barcoded adapters with a total of 8 different index sequences	2°C to 8°C
SA0057	Barcode Adapters C41-C48 for Illumina Platform	Barcoded adapters with a total of 8 different index sequences	2°C to 8°C

## Additional Information

	MBC Adapter	Index
Illumina Barcode Adapters C1 - C8 (SA0052)	Illumina_RBC3_BC1	TCCTGAGT
	Illumina_RBC3_BC2	ACGGTACA
	Illumina_RBC3_BC3	CAGAACGT
	Illumina_RBC3_BC4	CTCCAACT
	Illumina_RBC3_BC5	GTTGCAGA
	Illumina_RBC3_BC6	CTACAGGT
	Illumina_RBC3_BC7	CTGACTCT
	Illumina_RBC3_BC8	TGGTACCT

	MBC Adapter	Index
Illumina Barcode Adapters C9 - C16 (SA0053)	Illumina_RBC3_BC9	TCGTAGTC
	Illumina_RBC3_BC10	TGTGAGCA
	Illumina_RBC3_BC11	ATTGCTGC
	Illumina_RBC3_BC12	GAACTTGC
	Illumina_RBC3_BC13	ACGAGACT
	Illumina_RBC3_BC14	ACCAGTTC
	Illumina_RBC3_BC15	CAAGTCAG
	Illumina_RBC3_BC16	GTAGTCTG

	MBC Adapter	Index
Illumina Barcode Adapters C17 - C24 (SA0054)	Illumina_RBC3_BC17	CGTGTCAA
	Illumina_RBC3_BC18	GTAGCGAA
	Illumina_RBC3_BC19	ACACGAAG
	Illumina_RBC3_BC20	CAATCACC
	Illumina_RBC3_BC21	CTCTCTTG
	Illumina_RBC3_BC22	CGTATCGA
	Illumina_RBC3_BC23	TGAGGATC
	Illumina_RBC3_BC24	AGTTGCGT

	MBC Adapter	Index
Illumina Barcode Adapters C25 - C32 (SA0055)	Illumina_RBC3_BC25	TTCAACGC
	Illumina_RBC3_BC26	ATTCGGCT
	Illumina_RBC3_BC27	GAAGGTGA
	Illumina_RBC3_BC28	ATTCGTGC
	Illumina_RBC3_BC29	GATGACTC
	Illumina_RBC3_BC30	ATCAGACC
	Illumina_RBC3_BC31	CCACATTG
	Illumina_RBC3_BC32	GGTCTACT

	MBC Adapter	Index
Illumina Barcode Adapters C33 - C40 (SA0056)	Illumina_RBC3_BC33	GCCTACTA
	Illumina_RBC3_BC34	AGTCAAGG
	Illumina_RBC3_BC35	GCGAGAAT
	Illumina_RBC3_BC36	GGTTCGAT
	Illumina_RBC3_BC37	TCCATAGG
	Illumina_RBC3_BC38	TGACCGAA
	Illumina_RBC3_BC39	CCATGGTA
	Illumina_RBC3_BC40	CGAGTTAC

	MBC Adapter	Index
Illumina Barcode Adapters C41 - C48 (SA0057)	Illumina_RBC3_BC41	CGTACTCT
	Illumina_RBC3_BC42	TTCGAACG
	Illumina_RBC3_BC43	AAGGCTTC
	Illumina_RBC3_BC44	AACGTGTG
	Illumina_RBC3_BC45	GGTACCTT
	Illumina_RBC3_BC46	CACAGGAA
	Illumina_RBC3_BC47	CATGCCAT
	Illumina_RBC3_BC48	GGATACAG



## Limitations of Use

**For Research Use Only.** Not for use in diagnostic procedures.

This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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For more information please visit <http://www.archerdx.com>



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