

DNA + RNA + scTAM

The commercial DNA + RNA kit, catalog panel, and custom panels contain a GCGC *HhaI* recognition site in the Reverse primers and i7 index primers. Clients planning DNA + RNA + scTAM experiments using *HhaI* should do the following to ensure compatibility

1. Contact support@missionbio.com to request the custom RNA panel be manufactured without the GCGC recognition site.
2. Order custom RNA library index primers using the sequences below and use in place of the RNA index primers from the DNA + RNA kit.

DNA + RNA + scTAM *HhaI* compatible Indexes

Note that these primers share the same index sequences as the commercial DNA + RNA kit.

i5 index Primer	Sequence	Index Sequence
i5_RNAHha_1	AATGATACGGCGACCACCGAGATCTACAC GATAGGCT TCGTCGGCAGCGTC	GATAGGCT
i5_RNAHha_2	AATGATACGGCGACCACCGAGATCTACAC AGTGGATC TCGTCGGCAGCGTC	AGTGGATC
i5_RNAHha_3	AATGATACGGCGACCACCGAGATCTACAC TTGGACGT TCGTCGGCAGCGTC	TTGGACGT
i5_RNAHha_4	AATGATACGGCGACCACCGAGATCTACAC ATGACGTC TCGTCGGCAGCGTC	ATGACGTC
i5_RNAHha_5	AATGATACGGCGACCACCGAGATCTACAC GAAGTTGG TCGTCGGCAGCGTC	GAAGTTGG
i5_RNAHha_6	AATGATACGGCGACCACCGAGATCTACAC CATAACCAC TCGTCGGCAGCGTC	CATAACCAC
i5_RNAHha_7	AATGATACGGCGACCACCGAGATCTACAC CTGTTGAC TCGTCGGCAGCGTC	CTGTTGAC
i5_RNAHha_8	AATGATACGGCGACCACCGAGATCTACAC TGGCATGT TCGTCGGCAGCGTC	TGGCATGT

i7 index Primer	Sequence	Index Sequence
i7_RNAHha_1	CAAGCAGAAGACGGCATAACGAGATTGTGACTGGTCTCGTGGGCTCGGAGATGTGT ATAAGAGACAGGTGAGACACGACTGTGAGTACTA	TGTGACTG
i7_RNAHha_2	CAAGCAGAAGACGGCATAACGAGATGTCATCGAGTCTCGTGGGCTCGGAGATGTGT ATAAGAGACAGGTGAGACACGACTGTGAGTACTA	GTCATCGA
i7_RNAHha_3	CAAGCAGAAGACGGCATAACGAGATAGCACTTCGTCTCGTGGGCTCGGAGATGTGT ATAAGAGACAGGTGAGACACGACTGTGAGTACTA	AGCACTTC
i7_RNAHha_4	CAAGCAGAAGACGGCATAACGAGATGAAGGAAGGTCTCGTGGGCTCGGAGATGTGT TATAAGAGACAGGTGAGACACGACTGTGAGTACTA	GAAGGAAG
i7_RNAHha_5	CAAGCAGAAGACGGCATAACGAGATGTTGTTCCGGTCTCGTGGGCTCGGAGATGTGT ATAAGAGACAGGTGAGACACGACTGTGAGTACTA	GTTGTTCC
i7_RNAHha_6	CAAGCAGAAGACGGCATAACGAGATCGGTTGTTGTCTCGTGGGCTCGGAGATGTGT ATAAGAGACAGGTGAGACACGACTGTGAGTACTA	CGGTTGTT
i7_RNAHha_7	CAAGCAGAAGACGGCATAACGAGATACTGAGGTGTCTCGTGGGCTCGGAGATGTGT TATAAGAGACAGGTGAGACACGACTGTGAGTACTA	ACTGAGGT

i7_RNAHha_8	CAAGCAGAAGACGGCATAACGAGATTGAAGACGGTCTCGTGGGCTCGGAGATGTG TATAAGAGACAGGTGAGACACGACTGTGAGTACTA	TGAAGACG
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ORDER

1. Order oligos (single-stranded DNA) on IDT:
<https://www.idtdna.com/pages/support/how-to-order>
2. Purification method: **standard desalting, 25nmole**

LIBRARY PCR SETUP

3. Dilute each oligo to 4 μM with nuclease-free water (typically from 100 μM stock)
4. For each sample combine **5 μl of i5 index primer** and **5 μl of i7 index primer** -
The combined primers represent the “RNA Index Primer”
5. Proceed as outlined in the User Guide