

Tagify™ i5 UMI Adapter-loaded Transposase

Tagify i5 UMI reagents are a consistent source of quality-controlled adapter-loaded transposases for NGS-based multiplexed genome-editing assays that **eliminate the need for mechanical shearing or “homebrew” Tn5 purification and loading**. This solution provides the flexibility to perform a variety of on- and off-target gene editing analysis including detection of structural changes such as small and large indels, inversions, and translocations with the confidence you need to trust the biological insights and safety profiling assay results.

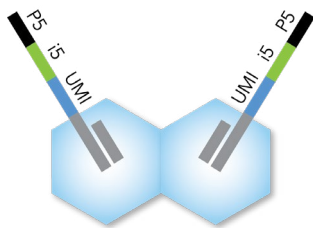
Bring Confidence to a World of Gene Editing Uncertainty

Key Benefits:

CONFIDENCE: Consistent source of reliable, fully QC'd reagents – no need to make your own

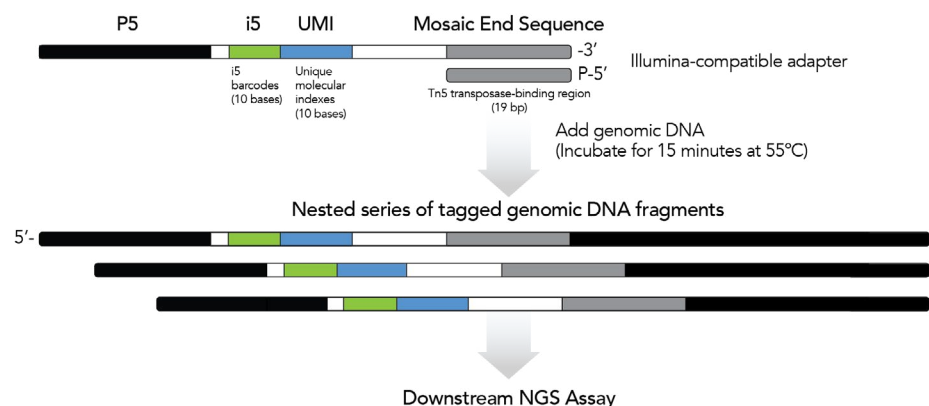
SPEED: Loaded Tn5 transposase to quickly tagment genomic DNA using a simple workflow

SCALABILITY: Ability to multiplex samples and scale with 96 Unique Molecular Identifiers (UMI)



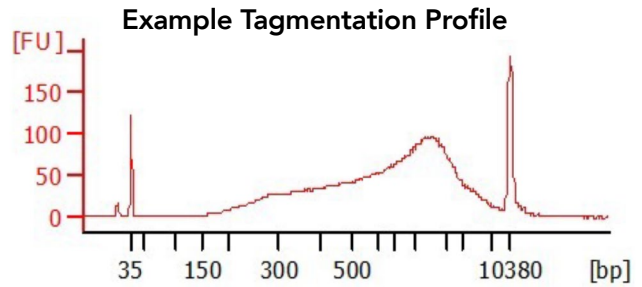
- Each transposase is loaded with a full-length, Illumina-compatible P5+i5+UMI+R1 priming sequence
- 10-bp i5 barcode and 10-bp unique molecular identifier (UMI)
- Available in sets of 24 or 96 loaded transposases

- Tagment DNA using a single 15-minute incubation
- Tagged DNA can be integrated into downstream gene-editing QC assays*

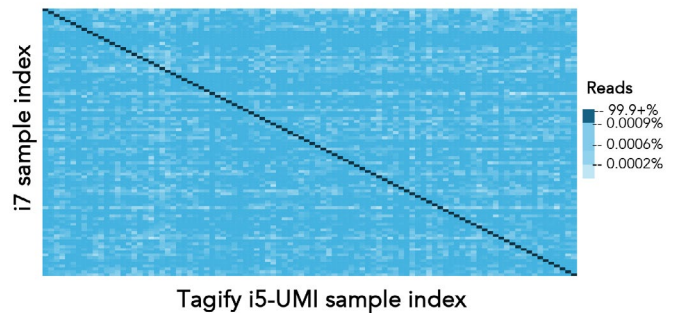


Full Quality Control for Consistent Enzyme Activity and No Adapter Cross Reactivity

Each Tagify™ i5 UMI loaded transposase has been optimized to fragment 50 ng of genomic DNA to an average size of 0.8 – 2kb (as measured by Agilent Bioanalyzer), while simultaneously tagging fragments with an 82 base sequence that contains an Illumina-compatible P5+i5+UMI+R1 sequence.



Tagify i5 UMI's low cross-talk offers accuracy of sequencing data and data reliability. Heatmap displays the percent of reads for all i5 and i7 sample index combinations in 96-plex library. The average contamination level of library adapters was < 0.08%.



Tagify i5 UMI Reagent Ordering Information

Donor strand oligonucleotide sequence (5' to 3')

5' AATGATACGGCGACCACCGAGATCTACACxxxxxxxxxxxxNNNNNNNNNNTCGTCGGCAGCGTCAGATGTGTATAAGAGACAG

| Description | Product # |
|-------------------------------|----------------|
| Tagify i5 UMI 24 Reactions | 301230 |
| Tagify i5 UMI 96 Reactions | 301210 |
| Tagify i5 UMI custom dispense | Please inquire |

Tagify i5 UMI Reagent Set Includes:

- Tagify i5 UMI Reagent Plate (24 or 96 reactions)
- 3X Coding Buffer
- X Solution
- MAGWise Paramagnetic Beads

Interested in Tagify? seqwell.com/tagify



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* Commercial use of some transposase-based methods may require a third-party license
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