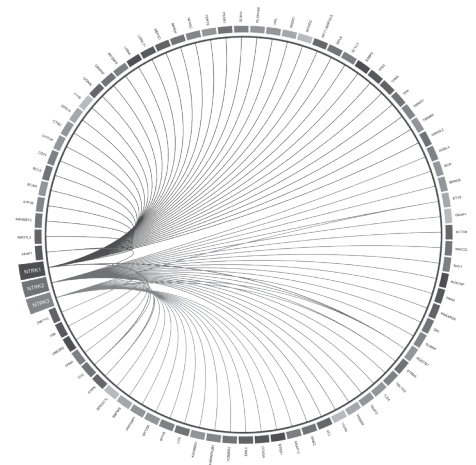


## Next-gen NTRK fusion detection

NTRK fusions with known and unknown fusion partners that are notoriously difficult to detect are critical events in cancer biology.

FusionPlex<sup>®</sup> NGS research assays provide sensitive NTRK fusion detection without prior knowledge of fusion partners.



Known NTRK 1/2/3 fusion partners

### High sensitivity fusion detection with a fast and easy workflow



- Detect & identify known and unknown gene fusions
- 1.5 day workflow with minimal hands-on time

### Streamlined workflow from sample to data



- Archer<sup>®</sup> Analysis provides a simple user interface and clear reporting for reliable results

### Fast and easy customization



- Design your own panel or send them to our team of experts
- Ready-to-use panels in as little as 4 weeks

## Find your ideal NTRK fusion detection assay

### NGS library preparation methods for fusion detection

RNA-based amplicon



DNA-based hybrid capture



RNA-based hybrid capture



FusionPlex<sup>®</sup> assay (RNA)

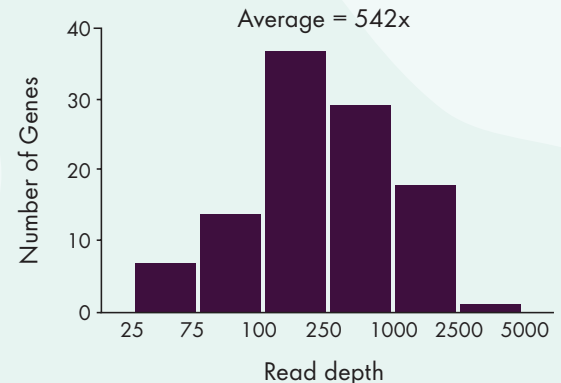
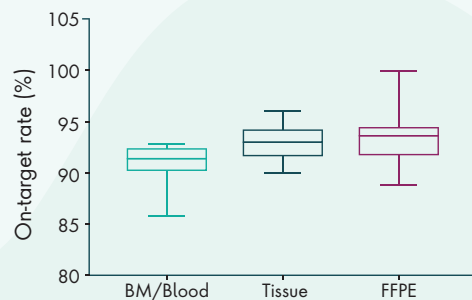


NGS library preparation methods for fusion detection	RNA-based amplicon	DNA-based hybrid capture	RNA-based hybrid capture	FusionPlex <sup>®</sup> assay (RNA)
Low input requirement	✓	●	●	✓
Recurrent fusion detection	✓	✓	✓	✓
Novel fusion detection	✗	●	✓	✓
Sensitivity	✗	✗	✓	✓
Simple workflow	✓	✗	✗	✓
Rapid turnaround time	✓	✗	✗	✓
Low cost to adopt	✓	✗	✗	✓
Ease of customization	●	●	✗	✓

## High gene coverage of target regions

Data from 60 validated samples show >92% of reads were successfully aligned, which indicates a strong enrichment of the regions of interest.

The coverage of all genes ranged from 25 to more than 4,000 unique reads, with an average of 542 unique reads per gene.\*



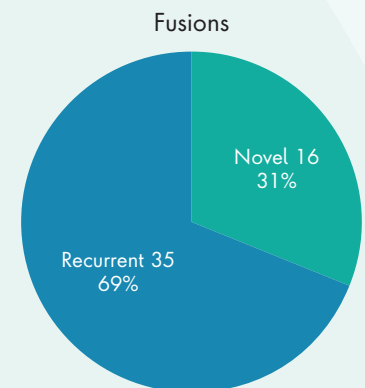
## Sample flexibility without sacrifice

With high on-target rates for bone marrow/blood, tissue and FFPE sample types, and no significant difference between groups, you can feel confident in your sample of choice.\*

## High sensitivity and specificity

Results from testing 60 validated samples show 100% sensitivity and 100% specificity. All previously validated fusions were detected by the assay, while no fusions were detected in the negative control samples.

Data from 276 clinical samples identified 51 unique fusions, 16 of which were novel (31%). Can your assay detect unknown fusions?\*



\*Chang, et al. Development and Clinical Validation of a Large Fusion Gene Panel for Pediatric Cancers. *J Mol Diagn.* 2019 Sep;21(5):873-883. doi: 10.1016/j.jmoldx.2019.05.006. Figures used with permission from *The Journal of Molecular Diagnostics*. All data was generated using a custom FusionPlex panel.

## NTRK containing FusionPlex panels for solid tumor research

- FusionPlex Lung v2**
  - Illumina: AB0135
  - Ion Torrent: AB0136
- FusionPlex Sarcoma v2**
  - Illumina: AB0133
  - Ion Torrent: AB0134
- FusionPlex Pan Solid Tumor v2**
  - Illumina: AB0137
  - Ion Torrent: AB0138
- Custom:** Design your own panel or add to an existing product. It's your panel, your way.



Learn more at [archerdx.com](https://archerdx.com)  
or email us at [adx-sales@invitae.com](mailto:adx-sales@invitae.com)

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