

# myTags<sup>®</sup> Custom *In Situ* Hybridization Probes

Take your *in situ* hybridization (ISH) experiments to a new level of detection and specificity. Easily visualize target regions with brighter signal and reduced background using myTags custom probe sets that contain thousands of unique and highly-specific synthetic oligonucleotides. Our proprietary design and manufacturing processes generate complex oligo library probe sets that overcome the limitations of BAC and other clone- or amplicon-derived probes. myTags custom probes always include custom design services and are available in a range of synthesis and tag configurations, including both immortal templates and optional labeled probes, making them the most flexible and comprehensive ISH probe solution available on the market.

## FEATURES & BENEFITS

**Maximum specificity** – Proprietary design algorithm selects specific probes with consistent melting temperatures

**Highly reliable results** – Short (43-47nt) synthetic oligonucleotides to efficiently penetrate cell barriers

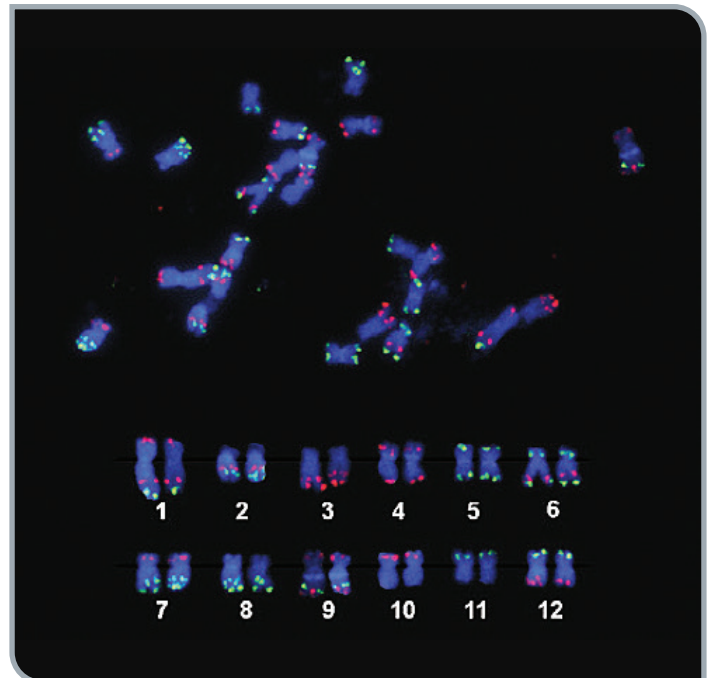
**Flexibility in scale** – Single or Indexed oligo synthesis options meet your experimental needs

**Multiplex target detection** – Wide selection of labels to accommodate any imaging modality or configuration

**Convenient formats** – Templates for self-labeling or ready-to-use labeled probes

## APPLICATION

- Multi-color fluorescent in-situ hybridization (FISH)
- Spatial-temporal patterns of gene expression
- Scaffold assembly and genetic mapping
- Chromosome painting
- Chromosome indexing
- DNA-FISH, RNA-FISH, Cryo-FISH, FIBER-FISH



Identification of potato chromosomes using oligo-based FISH barcoding strategy with myTags Custom probes. Photo courtesy of Guilherme Braz and Jiming Jiang

# Flexible Options to Fit Any ISH Experimental Need

## Single or Indexed Oligo Synthesis

For standalone orders and/or complex probe designs requiring up to 100K+ oligos, our Single Synthesis option provides maximum value. For smaller and/or multiple designs, our new Indexed Synthesis option maximizes both flexibility and cost-effectiveness. All probesets are delivered individually (200 ng minimum yield) and include composition verification via next-generation sequencing to confirm the quality of probe synthesis.

### PRODUCT TABLE

Cat. No.	Description
411002	myTags Custom Single Synthesis, 1-1.8K Scale – 1 Pool
411004	myTags Custom Single Synthesis, 1.8K-4K Scale – 1 Pool
411027	myTags Custom Single Synthesis, 4K-27K Scale – 1 Pool
411054	myTags Custom Single Synthesis, 27K-54K Scale – 1 Pool
412001	myTags Custom Indexed Synthesis, 27K Scale – 1 Unit
412111	myTags Custom Indexing Service, Per Probeset

*Additional options available. Minimum yield 200 ng depending on configuration.*

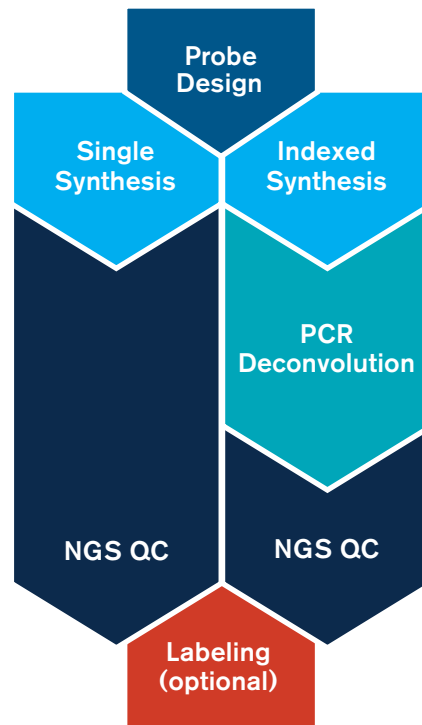
## Labeling Services

Select from a variety of common fluorescent or non-fluorescent options to enhance your signal, in both standard and high-sensitivity configurations. Our flexible custom label options support multiplex ISH for colocalization and co-expression studies. Combine with our Single/Indexed Synthesis oligo pool formats to develop a customized solution for your experimental needs, whether you need one or many unique probe pools.

### PRODUCT TABLE

Cat. No.	Description
418001	myTags Custom Standard Labeling Service – 1 Pool
418002	myTags Custom Standard Labeling Service – 2 Pools
418003	myTags Custom Standard Labeling Service – 3 Pools
419001	myTags Custom High-Sensitivity Labeling Service – 1 Pool
419002	myTags Custom High-Sensitivity Labeling Service – 2 Pools
419003	myTags Custom High-Sensitivity Labeling Service – 3 Pools

*Additional options available. Minimum yield 500-700 pmol depending on configuration.*



Label Options
6-FAM
ALEXA-488
TET
HEX
JOE
MAX
ATTO-550
TAMRA
ROX
ATTO-594
ATTO-633
ATTO-647N
ATTO-655
ATTO-665
BIOTIN
DIGOXIGENIN

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