

## myProbes Passport (RUO Probes)

<b>MPA50600</b>	<b>X, Y and 21 Probe</b> <i>For Research Use Only</i>
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**Nucleotide Locations** (If requesting more than one probe please specify individual probe colours)

	Chromosome Locus	Start	End	Colour
1	Xc	Xp11.1	Xy11.1	Aqua
2	Yc	Yp11.1	Yq11.1	Green
3	21q22.13a	38758396	38883103	Orange
4	21q22.13b	38838944	39008800	Orange
5	21q22.13c	38997037	39106716	Orange
6	21q22.13d	39131847	39285232	Orange
7	21q22.13e	39232855	39420138	Orange
8	21q22.13f	39435113	39541183	Orange

Database Used and Version

GRCh37 (hg19)

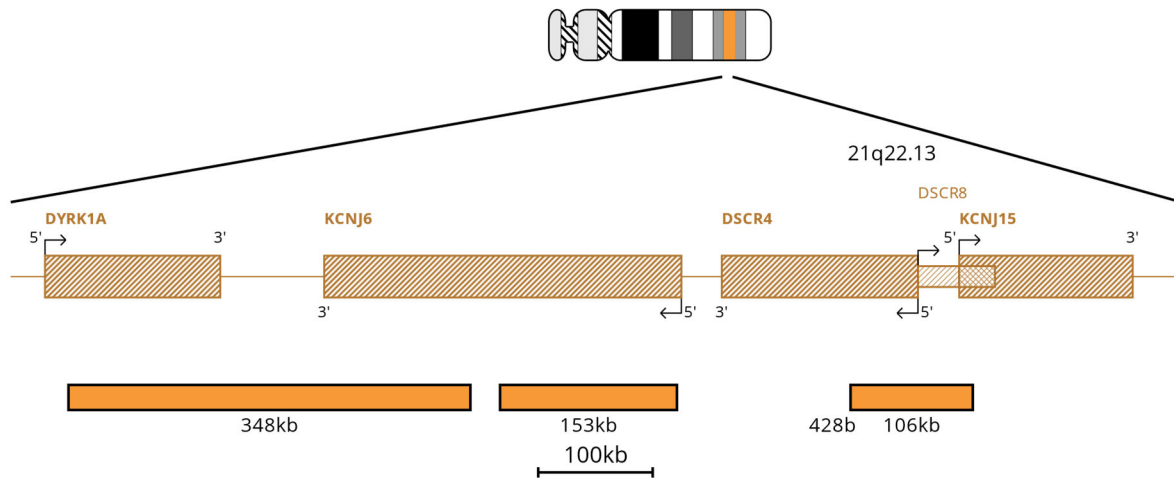
### Probe Map

MPA50600 v001



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## Materials Provided

- Probe:** 100 µl per vial  
 The probe is provided pre-mixed in hybridisation solution (Formamide; Dextran Sulphate; SSC) and is ready to use. It is directly labelled with a green fluorophore, which lies in the FITC Spectrum and an orange fluorophore, which lies in the Orange Spectrum. The probe has been batch released after QC testing on Formalin Fixed Paraffin Embedded Sample.
- Counterstain:** 150 µl per vial. The counterstain is DAPI antifade (ES: 0.125µg/ml DAPI (4,6-diamidino-2-phenylindole)).

## Warnings and Precautions

- For research use only. Not for use in diagnostic procedures.
- For laboratory professional use only.
- Probe mixtures contain formamide, which is a teratogen; do not breathe fumes or allow skin contact. Handle with care; wear gloves and a lab coat.
- DAPI is a potential carcinogen. Handle with care; wear gloves and a lab coat.
- Follow local disposal regulations for your location along with recommendations in the Safety Data Sheet to determine the safe disposal of this product. This also applies to damaged test kit contents.
- Dispose of all used reagents and any other contaminated disposable materials following procedures for infectious or potentially infectious waste. It is the responsibility of each laboratory to handle solid and liquid waste according to their nature and degree of hazardousness and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.
- Operators must be capable of distinguishing the colours red, blue, and green.
- The probe should not be diluted or mixed with other probes.
- All products should be validated before use.
- Internal controls should be carried out by using unaffected cell populations in testing samples.
- Custom probes are specifically developed for individual customers' RESEARCH USE ONLY (RUO) requirements and not with the intention of being used for in vitro diagnostic examination. Therefore, prior to any use of these probes, users should review the design of such probes to confirm they are suitable for their requirements.

## Storage and Handling

1. Store the probe between -25°C to -15°C.
2. Based on the stability established for other substantially equivalent CytoCell probes, this myProbes product should be stable for 2 years post manufacture date when stored as indicated on the label.
3. Store the probe and counterstain vials in the dark. Ensure that exposure of the probe and counterstain to laboratory lights is limited at all times.

## Known Cross-Reactivity

Aqua cross hybridisation maybe observed at QC release on the sample type specified to centromeric regions of chromosome 1, 11, 17 and Y. Green cross hybridisation maybe observed at QC release on the sample type specified to centromeric regions of chromosome 13, 14, 15, 21, 22 and X.

## Customer Support

Please contact the CytoCell Technical Support Department or email [probes@cytoCELL.com](mailto:probes@cytoCELL.com).

## Patents and Trademarks

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