Cytocell
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multiprobe

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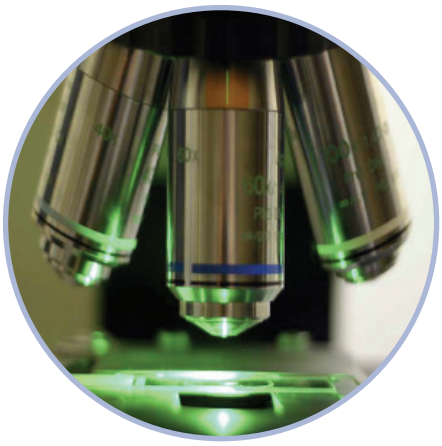
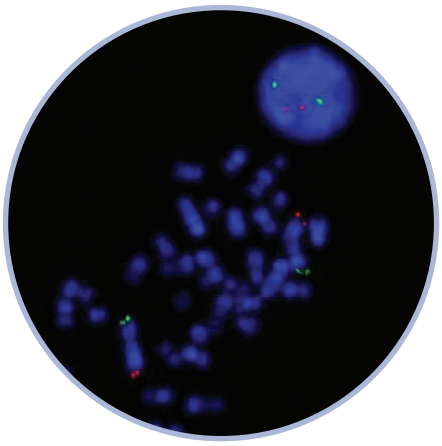
# Chromoprobe Multiprobe® Porcine





Optimised and simple protocol

Easy to use

Sample flexibility

Complete system

# Chromoprobe Multiprobe Porcine

The Cytocell Chromoprobe Multiprobe Porcine is a useful tool in the pig breeding industry to identify translocations that have implications in fertility. The system allows the user to perform multiple FISH experiments on a single slide and to detect chromosomal aberrations (aneuploidy, chromosome breakage and rearrangements) present in the pig karyotype. The Chromoprobe Multiprobe Porcine utilises directly-labelled locus-specific subtelomere BAC probes, allowing the visualisation of any chromosomal aberrations under the fluorescence microscope without expert knowledge of the pig karyotype.

## The Chromoprobe Multiprobe Porcine delivers:

- **Optimised and simple FISH protocol** — A simple FISH hybridisation without pepsin, RNase treatment or paraformamide fixation and wash procedure, allows simultaneous analysis of the entire genome on one slide
- **Easy to use** — Template slides with marked areas corresponding to squares of the Multiprobe device allow cell cultures to optimally contact the probes during hybridisation for high-quality results
- **Sample flexibility** — The Chromoprobe Multiprobe Porcine is developed to work with metaphase and interphase cultures prepared in standard 3:1 methanol, acetic acid fixative
- **Complete system** — The Chromoprobe Multiprobe Porcine includes all ancillary reagents required (i.e. DAPI and hybridisation mix) for straightforward processing

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1pq | 2pq | 3pq | 4pq | 5pq | 6pq | 7pq | 8pq |
| | 9pq | 10pq | 11pq | 12pq | 13pq | 14pq | 15pq | 16pq |
| | 17pq | 18pq | Xpq | | | | | |

Figure 1: The Chromoprobe Multiprobe Porcine device layout. Each square of the device carries two subtelomeric BAC probes labelled in red and green fluorochromes (Texas Red®, FITC). The probes are reversibly dried on to the first 19 squares of the device using a proprietary process. FISH signals are visible with a DAPI/FITC/Texas Red® triple filter or individually through specific single filters.

***"The Chromoprobe Multiprobe Porcine is in routine use in our laboratory and has allowed us to identify a cryptic translocation that is only detectable using this technology. This finding delivered significant financial implications to a large pig breeding program. Standard karyotyping tests failed to detect the rearrangement in the original testing regimen."***

**Professor Darren Griffin. University of Kent, Canterbury. UK**

## Cytocell ZooFISH myProbes

- The Chromoprobe Multiprobe Porcine can be customised according to requirements
- Individual subtelomeres or any other specific combinations of probes can be developed as required — both as devices or in traditional liquid form
- Porcine paints 1–18 X&Y are also available as either a Multiprobe device or individually labelled (in red and green) or multicolour (red green and blue) liquid probes

**Oxford Gene Technology**
Begbroke Science Park, Begbroke Hill, Woodstock Road, Begbroke, Oxfordshire, OX5 1PF, UK
T: +44(0)1865 856828 (US: 914-467-5285) E: contact@ogt.com W: www.ogt.com



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