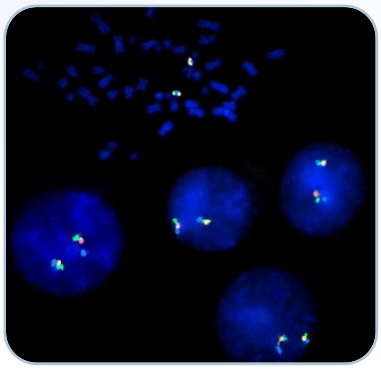
## ZytoLight® SPEC DiGeorge Triple Color Probe (Z-2289-50)

The **ZytoLight SPEC DiGeorge Triple Color Probe** (Prod. No. Z-2289-50) is designed to detect deletions affecting the chromosomal regions 22q11.21 harboring the genes HIRA (a.k.a. TUPLE1) and CRKL as well as 22q11.21-q11.22 harboring the MAPK1 gene. The 22q11.2 deletion syndrome (22q11.2DS), also known as velocardiofacial syndrome (VCFS) and DiGeorge syndrome. The triple color probe targets CRKL that maps to the LCR22C-D region allowing the detection of rare deletions.

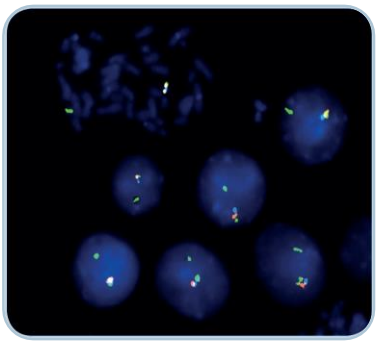
| Targeted Genes | Application |
|---|---|
| HIRA (a.k.a. TUPLE1)<br>MARK1<br>CRKL | DiGeorge Syndrome (HIRA)<br>Detection of rare deletions (CRKL, MARK1) - **UNIQUE** |

https://www.zytovision.com/products/zytolight/z-2289
- Product Data Sheet
- Instruction for Use
- MSDS

The detection of rare deletions in DiGeorge Syndrome cases using the **ZytoLight SPEC DiGeorge Triple Color Probe** is **UNIQUE** to ZytoVision GmbH.



*SPEC DiGeorge Triple Color Probe hybridized to normal interphase cells.*



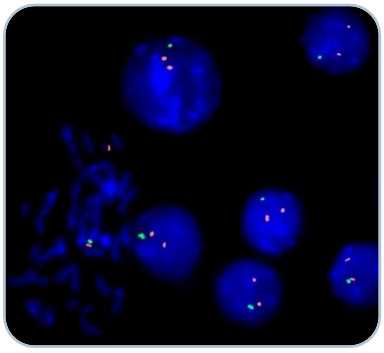
*SPEC DiGeorge Triple Color Probe hybridized to a DiGeorge syndrome case showing a HIRA/CRKL deletion.*

## ZytoLight® SPEC DiGeorge/Phelan McDermid Dual Color Probe (Z-2299-50)

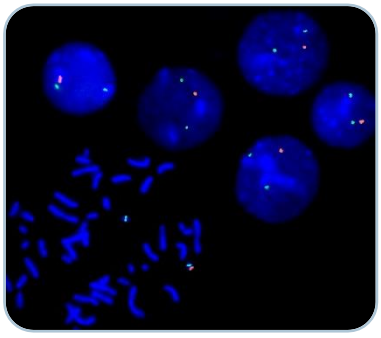
The **ZytoLight SPEC DiGeorge/Phelan McDermid Dual Color Probe** (Prod. No. Z-2299-50) is designed to detect deletions affecting the chromosomal region 22q11.21 harboring the HIRA (a.k.a. TUPLE1) gene and 22q13.33 harboring the SHANK3 gene, respectively. The 22q13.3 deletion syndrome (Phelan-McDermid syndrome) typically results from deletions of 100 kb to 9 Mb involving the distal long arm of chromosome 22. Almost all of these deletions include the gene SHANK3.

| Targeted Genes | Application |
|---|---|
| HIRA (a.k.a. TUPLE1)<br>SHANK3, ARSA | DiGeorge Syndrome (HIRA)<br>Phelan McDermid Syndrome (SHANK3) |

https://www.zytovision.com/products/zytolight/z-2299
- Product Data Sheet
- Instruction for Use
- MSDS



*SPEC DiGeorge/Phelan McDermid Dual Color Probe hybridized to a DiGeorge syndrome case showing a HIRA deletion.*



*SPEC DiGeorge/Phelan McDermid Dual Color Probe hybridized to a Phelan McDermid syndrome case showing a SHANK3 deletion.*

**Related Products**
**ZytoLight®** FISH-Cytology Implementation Kit - Product No. Z-2099-20

All probes are CE IVD registered and available as 5 test volume.

Please do not hesitate to contact us if you have any questions or comments.
We hope that this information is helpful for you.



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Molecular diagnostics simplified