

## S100A10/PNOC FISH Probe Kit

### Introduction

The S100A10/PNOC FISH Probe Kit is designed to detect the human *S100A10* gene, located on chromosome band 1q21.3, and the *PNOC* gene on chromosome band 8p21.1. The *S100A10* gene – also called *42C*, *P11*, *p10*, *GP11*, *ANX2L*, *CAL1L*, *CLP11*, *Ca[1]* or *ANX2LG* – has been shown to be over-expressed in thyroid, gastric and renal cancers and some lymphomas. It may also play a role in inherited depressive disorders. Mutations of the *PNOC* gene – also called *OFQ*, *N/OFQ*, *PPNOC* or *ppN/OFQ* – have been associated with various heritable anatomical and developmental abnormalities.

### Intended Use

To measure the copy number of the human *S100A10* and *PNOC* genes located on chromosome bands 1q21.3 and 8p21.1, respectively.

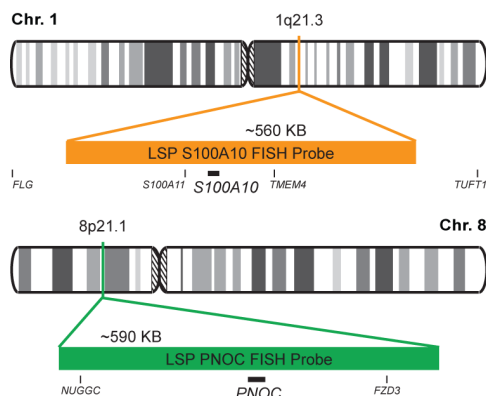
### Cont.

LSP S100A10 FISH Probe  
LSP PNOC FISH Probe

### Color

CytoOrange  
CytoGreen

### Probe Design



LSP S100A10 FISH Probe covers a chromosomal region which includes the entire *S100A10* gene. LSP PNOC FISH Probe covers a chromosomal region which includes the entire *PNOC* gene.

### Cat. No.

CT-PAC160-10-OG

### Volume

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Pattern

2O + 2G

#### Abnormal Pattern

Other Patterns

- 1) Donato R. *Int J Biochem Cell Biol.* 33(7):637-68 (2001).
- 2) Svenningsson P, et al. *Science.* 311(5757):77-80 (2006).
- 3) Verma R, et al. *Am J Med Genet B Neuropsychiatr Genet.* 144B(8):1079-82 (2007).
- 4) Wachman EM, et al. *Drug Alcohol Depend.* pii: S0376-8716(15)00363-4 (2015).
- 5) Blaveri E, et al. *Eur J Hum Genet.* 9(6):469-72 (2001).



CytoTest Inc.  
9430 Key West Ave., Suite 210  
Rockville, MD 20850, USA

\* CE IVD only available in certain countries. All other countries are either ASR or RUO. Please contact your local dealer or our headquarters for more information.

#### India Contact:

#### Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)