

## PCNA eFISH Probe

Catalog No	Description
<b>FR049-20</b>	0.22 mL of ready-to-use oligo-conjugated mRNA probe*
<b>CP201-20</b>	0.22 mL of complementary probe conjugated with FAM fluorophore*

\* For 18x18 slides, addition of 10 µL probe is recommended.

### Intended Use

**For Research Use only.** This eFISH mRNA probe is designed for the specific localization of proliferating cell nuclear antigen (PCNA) mRNA in formalin-fixed, paraffin embedded (FFPE) tissue sections. Interpretation of results must be done by experienced personnel.

### Summary and Explanation

PCNA is a DNA clamp that acts as a processivity factor for DNA polymerase in eukaryotic cells and is essential for replication. PCNA is a homotrimer and achieves its processivity by encircling the DNA, where it acts as a scaffold to recruit proteins involved in DNA replication, DNA repair, chromatin remodeling and epigenetic changes. Several proteins interact with PCNA via the two known PCNA-interacting motifs PCNA-interacting peptide (PIP) box and AlkB homologue 2 PCNA interacting motif (APIM). Proteins binding to PCNA via the PIP-box are mainly involved in DNA replication whereas proteins binding to PCNA via APIM are mainly important in the context of genotoxic stress.

### Storage and Handling

**Store at -20 °C.** Allow the reagents to reach ambient temperature before use.

### Reagents Provided

One vial of eFISH probe and one vial of corresponding fluorophore-labeled complementary probe.

### Recommended Protocol

#### Manual:

<https://omicsveu.com/wpcontent/uploads/Brochures/914-0083.0.pdf>

#### Automation:






<https://omicsveu.com/wpcontent/uploads/Brochures/914-0082.0.pdf>

#### For more information:

<https://omicsveu.com/wpcontent/uploads/Brochures/914-0084.0.pdf>

### Bibliography

1. [10.1007/978-3-642-16712-6\\_518](https://doi.org/10.1007/978-3-642-16712-6_518)
2. [https://journals.lww.com/md-journal/fulltext/2020/04170/clinical\\_significance\\_of\\_high\\_expression\\_of.59.aspx](https://journals.lww.com/md-journal/fulltext/2020/04170/clinical_significance_of_high_expression_of.59.aspx)

	Temperature Limitation	<b>RUO</b>	For Research Use Only
	Use By Date	<b>LOT</b>	Batch Code
	Non-Sterile		Consult Instructions for Use
<b>REF</b>	Catalogue Number		<b>BioGenex</b>

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Category	eFISH Probes	Revision No.	A
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