# mutaFISH™ PSAwt RNA Probes

Catalog # FP0018 Size 1 Probe Set

## Applications



# mutation specific, Fluorescence *In Situ* Hybridization (Cells)

mutaFISH<sup>™</sup> staining was performed *in situ* in human LNCaP cells. PSA was detected via red signal (Cy5).

Specification	
Product Description	mutaFISH™ PSAwt RNA Probes is designed to detect human PSA gene on single strand RNA in ce Ils using padlock probe and <i>in situ</i> rolling-circle amplification technology.
Reactivity	Human
Supplied Product	Content:
	1. RT PSA Primer
	2. mutaFISH™ PSAwt RNA Probe
	3. Detection Probe-Texas Red X
Technology	mutaFISH™ (mutation-specific Fluorescence <i>In Situ</i> Hybridization)
Comparison	<u>FISH Probes vs mutaFISH™ Probes</u>
Fluorophore	Texas Red X (Excitation Peak (nm): 595; Emission Peak 613)
Probe Position	

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**Product Information** 

Regulatory Status	For research use only (RUO)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	We recommend mutaFISH <sup>™</sup> RNA Accessory Kit (Catalog #: <u>KA4915</u> ) which provides necessary re agents and enzymes for <i>in situ</i> reverse transcription, RNA digestion, mutaFISH <sup>™</sup> hybridization, ligati on and amplication prior to mutaFISH <sup>™</sup> .

Video

### Applications

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# Gene Info — KLK3

Entrez GenelD	<u>354</u>
Gene Name	KLK3
Gene Alias	APS, KLK2A1, PSA, hK3
Gene Description	kallikrein-related peptidase 3
Omim ID	<u>176820</u>
Gene Ontology	<u>Hyperlink</u>

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Gene Summary	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing ev idence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in sem inal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably b y hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Altern ate splicing of this gene generates several transcript variants encoding different isoforms. [provid ed by RefSeq
Other Designations	P-30 antigen gamma-seminoprotein kallikrein 3, (prostate specific antigen) prostate specific antig en semenogelase seminin

### Pathway

- Pathways in cancer
- Prostate cancer

#### Disease

- Breast cancer
- Breast Neoplasms
- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Lymphatic Metastasis
- <u>Neoplasm Invasiveness</u>
- Neoplasm Metastasis
- <u>Neoplasm Recurrence</u>
- Neoplasms
- Prostate cancer

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**Product Information** 

- Prostatic Hyperplasia
- Prostatic Neoplasms