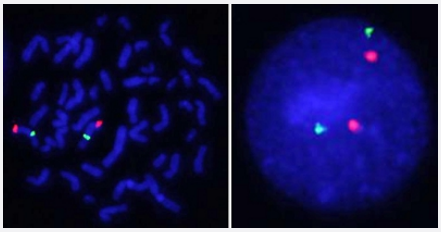
Sm Size

ESR1/CEN6p FISH Probe

Catalog # FG0239 Size 200 uL, 100 uL

Applications



Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

Specification

Product Description	Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology).
Probe 1	**Name:** ESR1 **Size:** Approximately 390kb **Fluorophore:** Texas Red **Location:** 6p25.1 - q25.2
Probe 2	**Name:** CEN6p **Size:** Approximately 660kb **Fluorophore:** FITC **Location:** 6p12.1
Origin	Human

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Source	Genomic DNA
Reactivity	Human
Notice	We **strongly recommend** the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulatory Status	For research use only (RUO)
Quality Control Testing	Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The l eft image is chromosomes at metaphase, and the right image is an interphase nucleus.
Supplied Products	DAPI Counterstain (1500 ng/mL) 125 uL for each 100 uL FISH Probe
Storage Instruction	Store at 4°C in the dark.
Note	Hybridization position of the probes on the chromosome. Hybridization position of the probes on the chromosome.
Self-Attestation	Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening

Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — ESR1

Entrez GeneID	2099
Gene Name	ESR1
Gene Alias	DKFZp686N23123, ER, ESR, ESRA, Era, NR3A1
Gene Description	estrogen receptor 1
Omim ID	133430 157300 608446
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters. [provided by RefSeq
Other Designations	OTTHUMP00000017718|OTTHUMP00000017719|estrogen receptor alpha

Disease

- Abortion
- Acute Disease
- Adenocarcinoma
- Alveolar Bone Loss
- Alzheimer disease
- Amphetamine-Related Disorders
- Anorexia Nervosa
- Antisocial Personality Disorder
- Aortic Aneurysm
- Arteriosclerosis
- Arthritis
- Asperger Syndrome
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Atrophy
- Autistic Disorder
- Azoospermia

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- beta-Thalassemia
- Biliary Tract Neoplasms
- Bipolar Disorder
- Body Weight
- Bone Diseases
- Bone Neoplasms
- Bone Resorption
- Borderline Personality Disorder
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bulimia
- Cadmium Poisoning
- Calcinosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cell Transformation
- Cellulitis
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Child Behavior Disorders

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- Cholestasis
- Chorioamnionitis
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Cognition Disorders
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Cryptorchidism
- Cystic fibrosis
- Death
- Dementia
- Depression
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Disease Susceptibility

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- Diseases in Twins
- Down Syndrome
- Drug Hypersensitivity
- Ductus Arteriosus
- Dyskinesia
- Dyslipidemias
- Dysmenorrhea
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Facial Pain
- Femoral Neck Fractures
- Fetal Membranes
- Fluorosis
- Fractures
- Gallstones
- Gender Identity
- Genetic Predisposition to Disease
- Genetics
- Genital Neoplasms
- Glaucoma
- Glomerulonephritis
- Graft vs Host Disease
- Graves Disease

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- Heart Diseases
- Hepatitis B
- Hip Dislocation
- Hip Fractures
- Hot Flashes
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hyperplasia
- Hypersensitivity
- Hypertension
- Hypertrophy
- Hypospadias
- Infant
- Infertility
- Inflammation
- Insulin Resistance
- Intervertebral Disk Displacement
- Kidney Failure
- Kidney Neoplasms
- Leiomyoma
- Leiomyomatosis
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis

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- Lymphatic Metastasis
- Lymphoma
- Macular Degeneration
- Memory
- Menstruation Disturbances
- Mental Disorders
- Mental Status Schedule
- Metabolic Syndrome X
- Microsatellite Instability
- Migraine Disorders
- Migraine with Aura
- Migraine without Aura
- Mood Disorders
- Multiple Sclerosis
- Myasthenia Gravis
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neuropsychological Tests
- Neurotic Disorders
- Obesity
- Obstetric Labor
- Oligospermia

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- Ossification of Posterior Longitudinal Ligament
- Osteoarthritis
- Osteonecrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Overweight
- Parkinson disease
- Periodontitis
- Peripheral Vascular Diseases
- Personality Assessment
- Personality Inventory
- Polycystic Ovary Syndrome
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Premenstrual Syndrome
- Primary Ovarian Insufficiency
- Prostate cancer
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Psychological Tests
- Psychoses
- Psychotic Disorders

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- Puberty
- Puerperal Disorders
- Pulmonary Disease
- Rectal Neoplasms
- Recurrence
- Retinoblastoma
- Retinopathy of Prematurity
- Schizophrenia
- Scleroderma
- Scoliosis
- Seminoma
- Sleep Disorders
- Social Perception
- Spinal Fractures
- Spinal Osteophytosis
- Stomach Neoplasms
- Stress
- Stroke
- Substance-Related Disorders
- Temporomandibular Joint Disorders
- Tension-Type Headache
- Testicular Neoplasms
- Thalassemia
- Thrombophilia
- Thrombosis
- Thyroid Neoplasms

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- Tobacco Use Disorder
- Tooth Loss
- Urinary Bladder Neoplasms
- Urinary Calculi
- Uterine Diseases
- Uterine Neoplasms
- Varicose Ulcer
- Venous Thrombosis
- Vertigo
- Vision Disorders
- Vitiligo
- Weight Gain
- Werner syndrome
- Yang Deficiency
- Yin Deficiency

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