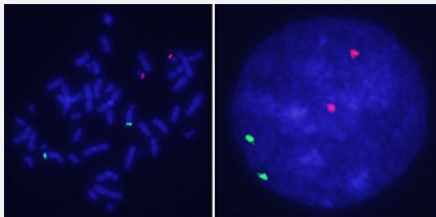


# ESR1/NCOA3 DY Translocation FISH Probe

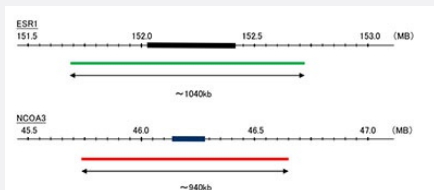
Catalog # FT0042      Size 100 uL

## Applications



Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.



## Specification

|                            |                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Labeled FISH probes for identification of gene translocation using Fluorescent In Situ Hybridization Technique. ( <a href="#">Technology</a> ). |
| <b>Probe 1</b>             | <b>Name:</b> ESR1<br><b>Size:</b> Approximately 1040kb<br><b>Fluorophore:</b> FITC<br><b>Location:</b> 6q25.1-q25.2                             |
| <b>Probe 2</b>             | <b>Name:</b> NCOA3<br><b>Size:</b> Approximately 940kb<br><b>Fluorophore:</b> Texas Red<br><b>Location:</b> 20q13.12                            |
| <b>Origin</b>              | Human                                                                                                                                           |

|                         |                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source                  | Genomic DNA                                                                                                                                                                                                                   |
| Reactivity              | Human                                                                                                                                                                                                                         |
| Form                    | Liquid                                                                                                                                                                                                                        |
| Notice                  | We <b>strongly recommend</b> the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: <a href="#">KA2375</a> or <a href="#">KA2691</a> ) 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 left image is chromosomes at metaphase, and the right image is an interphase nucleus.                                       |
| Supplied Product        | 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.<br>Hybridization position of the probes on the chromosome.                                                                                                            |

## Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

## Gene Info — ESR1

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| Entrez GeneID    | <a href="#">2099</a>                                                 |
| Gene Name        | ESR1                                                                 |
| Gene Alias       | DKFZp686N23123, ER, ESR, ESRA, Era, NR3A1                            |
| Gene Description | estrogen receptor 1                                                  |
| Omim ID          | <a href="#">133430</a> <a href="#">157300</a> <a href="#">608446</a> |
| Gene Ontology    | <a href="#">Hyperlink</a>                                            |

### 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

## Gene Info — NCOA3

### Entrez GeneID

[8202](#)

### Gene Name

NCOA3

### Gene Alias

ACTR, AIB-1, AIB1, CAGH16, CTG26, KAT13B, MGC141848, RAC3, SRC3, TNRC14, TNRC16, TRAM-1, bHLHe42, pCIP

### Gene Description

nuclear receptor coactivator 3

### Omim ID

[601937](#)

### Gene Ontology

[Hyperlink](#)

### Gene Summary

The protein encoded by this gene is a nuclear receptor coactivator that interacts with nuclear hormone receptors to enhance their transcriptional activator functions. The encoded protein has histone acetyltransferase activity and recruits p300/CBP-associated factor and CREB binding protein as part of a multisubunit coactivation complex. This protein is initially found in the cytoplasm but is translocated into the nucleus upon phosphorylation. Two transcript variants encoding different isoforms have been found for this gene. In addition, a polymorphic repeat region is found in the C-terminus of the encoded protein. [provided by RefSeq]

### Other Designations

CBP-interacting protein|OTTHUMP00000031716|OTTHUMP00000031718|amplified in breast cancer-1|receptor-associated coactivator 3|steroid receptor coactivator protein 3|thyroid hormone receptor activator molecule 1

## Disease

- [Abortion](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Alcoholism](#)

- [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](#)
- [beta-Thalassemia](#)
- [Biliary Tract Neoplasms](#)
- [Bipolar Disorder](#)
- [Body Weight](#)
- [Body Weight](#)
- [Bone Diseases](#)
- [Bone Neoplasms](#)
- [Bone Resorption](#)
- [Borderline Personality Disorder](#)
- [Brain Ischemia](#)
- [Breast cancer](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Breast Neoplasms](#)
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- [Bulimia](#)
- [Cadmium Poisoning](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cell Transformation](#)
- [Cellulitis](#)
- [Cerebral Hemorrhage](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Child Behavior Disorders](#)
- [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](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Down Syndrome](#)
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- [Dyslipidemias](#)

- [Dysmenorrhea](#)
- [Edema](#)
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- [Endometrial Neoplasms](#)
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- [Fluorosis](#)
- [Fractures](#)
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- [Hip Fractures](#)

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- [Lupus Nephritis](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)



- [Lymphoma](#)
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- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Migraine Disorders](#)
- [Migraine with Aura](#)
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- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
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- [Myocardial Ischemia](#)
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- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Obesity](#)
- [Obesity](#)

- [Obstetric Labor](#)
- [Oligospermia](#)
- [Ossification of Posterior Longitudinal Ligament](#)
- [Osteoarthritis](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Ovarian Neoplasms](#)
- [Overweight](#)
- [Parkinson disease](#)
- [Periodontitis](#)
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- [Pre-Eclampsia](#)
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- [Premature Birth](#)
- [Premenstrual Syndrome](#)
- [Primary Ovarian Insufficiency](#)
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- [Prostate cancer](#)
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- [Psychoses](#)
- [Psychotic Disorders](#)
- [Puberty](#)
- [Puerperal Disorders](#)
- [Pulmonary Disease](#)
- [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](#)
- [Tobacco Use Disorder](#)
- [Tooth Loss](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Diseases](#)
- [Uterine Neoplasms](#)
- [Varicose Ulcer](#)
- [Venous Thrombosis](#)
- [Vertigo](#)
- [Vision Disorders](#)
- [Vitiligo](#)
- [Weight Gain](#)
- [Werner syndrome](#)
- [Werner syndrome](#)
- [Yang Deficiency](#)
- [Yin Deficiency](#)