

# TEL/AML1,DY Translocation FISH Probe

Catalog # FA0643      Size 200 uL

## Specification

|                     |                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. ( <a href="#">Technology</a> ).                                                                         |
| Origin              | Human                                                                                                                                                                                                                         |
| Source              | Genomic DNA                                                                                                                                                                                                                   |
| Reactivity          | Human                                                                                                                                                                                                                         |
| 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. |
| Regulation Status   | For research use only (RUO)                                                                                                                                                                                                   |
| Supplied Product    | DAPI Counterstain (1500 ng/mL) 250 uL                                                                                                                                                                                         |
| Storage Instruction | Store at 4°C in the dark.                                                                                                                                                                                                     |

## Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

## Gene Info — RUNX1

|                  |                                                 |
|------------------|-------------------------------------------------|
| Entrez GeneID    | <a href="#">861</a>                             |
| Gene Name        | RUNX1                                           |
| Gene Alias       | AML1, AML1-EVI-1, AMLCR1, CBFA2, EVI-1, PEBP2aB |
| Gene Description | runt-related transcription factor 1             |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Omim ID            | <a href="#">151385</a> <a href="#">180300</a> <a href="#">601399</a> <a href="#">601626</a>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Summary       | Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit of CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal translocations involving this gene are well-documented and have been associated with several types of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| Other Designations | AML1-EVI-1 fusion protein acute myeloid leukemia 1 aml1 oncogene core-binding factor, runt domain, alpha subunit 2                                                                                                                                                                                                                                                                                                                                                                                                     |

## Gene Info — ETV6

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">2120</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Name          | ETV6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Alias         | TEL, TEL/ABL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Description   | ets variant 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Omim ID            | <a href="#">131440</a> <a href="#">600618</a> <a href="#">601626</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Summary       | This gene encodes an ETS family transcription factor. The product of this gene contains two functional domains: a N-terminal pointed (PNT) domain that is involved in protein-protein interactions with itself and other proteins, and a C-terminal DNA-binding domain. Gene knockout studies in mice suggest that it is required for hematopoiesis and maintenance of the developing vascular network. This gene is known to be involved in a large number of chromosomal rearrangements associated with leukemia and congenital fibrosarcoma. [provided by RefSeq] |
| Other Designations | TEL oncogene TEL1 oncogene ets variant gene 6 (TEL oncogene)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Pathway

- [Acute myeloid leukemia](#)
- [Chronic myeloid leukemia](#)
- [Dorso-ventral axis formation](#)
- [Pathways in cancer](#)

## Disease

- [Arthritis](#)
- [Asthma](#)
- [Blast Crisis](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Immune System Diseases](#)
- [Leukemia](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Multiple System Atrophy](#)
- [Myelodysplastic Syndromes](#)
- [Myelodysplastic Syndromes](#)
- [Pancreatic cancer](#)

- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Psoriasis](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)