

**DATA SHEET**  
**mRNA-ABL1 probe**

**Catalog No.**  
**PR261-100**

**Description**  
One vial of 0.650 ml of probe in hybridizationbuffer

**Analyte Specific Reagent. Analytical and performance characteristics are not established.**

Doc. No. 932-PR261-100

Rev. C

Date of release: 24-Jul-2024

**Description**

This gene is a protooncogene that encodes a protein tyrosine kinase involved in a variety of cellular processes, including cell division, adhesion, differentiation, and response to stress. The activity of the protein is negatively regulated by its SH3 domain, whereby deletion of the region encoding this domain results in an oncogene.

**Specifications**

Messenger RNA (mRNA) is a subtype of RNA. An mRNA molecule carries a portion of the DNA code to other parts of the cell for processing. mRNA is created during transcription. During the transcription process, a single strand of DNA is decoded by RNA polymerase, and mRNA is synthesized. Physically, mRNA is a strand of nucleotides known as ribonucleic acid, and is single-stranded.

**Storage and Handling**

Store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. The reagent must be brought to room temperature before use. (Important! The presence of precipitates induces background staining).

**Precautions:**

For professional use. The probe contains formamide. Formamide is classified as a teratogen. Pregnant workers should keep exposure to a minimum. Avoid inhalation, ingestion, and contact with unprotected skin. If skin contact occurs, wash thoroughly with soap and water. For more information, refer to the Material Safety Data Sheet, which is available upon request.

**Quality Control**

Each lot of this mRNA probe is tested by *In Situ* hybridization for Quality Control purposes. Refer to the BioGenex Quality Control Testing Conditions table for additional information.

**References**

1. Silva JM, Dominguez G, Silva J, et al: Detection of epithelial messenger RNA in the plasma of breast cancer patients is associated with poor prognosis tumor characteristics. Clin Cancer Res 7:2821-2825, 2001
2. Pawlak A, Wu SJ, Bulle F, Suzuki A, Chikhi N, Ferry N. Different gamma-glutamyl transpeptidase mRNAs are expressed in human liver and kidney. Biochem Biophys Res Commun 1989; 164: 912-918.
3. c-Abl induces stabilization of histone deacetylase 1 (HDAC1) in a kinase activity-dependent manner. Aoyama K, et al. Cell Biol Int, 2015 Apr. PMID 25561363

**BioGenex Quality Control Testing Conditions**

Parameter	Conditions used
Control Tissue	Liver Carcinoma (PR-261)
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues