

DPYD FISH Probe

Catalog # FA0042 Size 200 uL

Specification

Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. (Technology).
Origin	Human
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.
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 — DPYD

Entrez GeneID	1806
Gene Name	DPYD
Gene Alias	DHP, DHPDHASE, DPD, MGC132008, MGC70799
Gene Description	dihydropyrimidine dehydrogenase

Omim ID [274270](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. Mutations in this gene result in dihydropyrimidine dehydrogenase deficiency, an error in pyrimidine metabolism associated with thymine-uraciluria and an increased risk of toxicity in cancer patients receiving 5-fluorouracil chemotherapy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000037640|OTTHUMP00000058954|dihydrothymine dehydrogenase|dihydrouracil dehydrogenase

Pathway

- [beta-Alanine metabolism](#)
- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Pantothenate and CoA biosynthesis](#)
- [Pyrimidine metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diarrhea](#)
- [Dihydropyrimidine Dehydrogenase Deficiency](#)
- [Disease Progression](#)

- [Drug Toxicity](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Leukopenia](#)
- [Mucositis](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neurotoxicity Syndromes](#)
- [Neutropenia](#)
- [Ovarian Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Rectal Neoplasms](#)
- [Stomach Neoplasms](#)
- [Stomatitis](#)
- [Thrombocytopenia](#)
- [Tobacco Use Disorder](#)