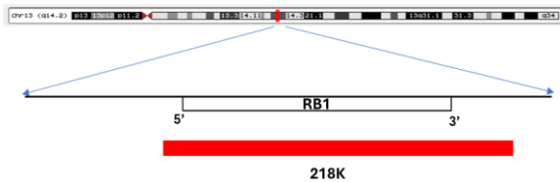


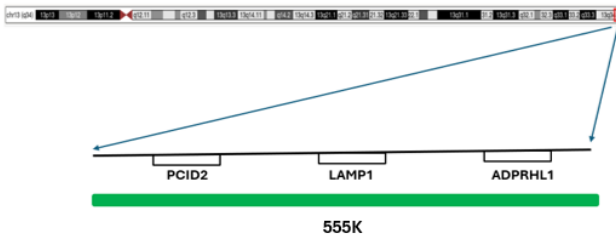
BRIGHTDOM FISH Probes: RB1 (13q14.2)/13q34 (LAMP1)

RB1 (13q14.2)



Gene: RB1 (13q14.2)
Centromere 5'-3' Telomere
Labeled region (Orange)
hg38: chr13:481284,237-48,501,830
Target size: 218K
Functionally critical region
RB1 labeled orange.

13q34/LAMP1



Gene: LAMP1 (13q34)
Centromere 5'-3' Telomere
Labeled region (Green)
hg38: chr13: 113,013,078- 113,568,117
Target size: 555K

Introduction: The RB1 (13q14.2) gene FISH probe is optimized to detect the deletion of RB1 gene at 13q14.2.

RB1 (13q14.2) gene (Orange): The RB1 gene (13q14.2) locus is labeled with an orange dye.

13q34 (LAMP1) (Green): The LAMP1 gene (13q34) locus is labeled with a green dye.

Signal Patterns: The RB1 gene (13q14.2) FISH probe is designed to detect the loss of RB1/13q in myelodysplastic neoplasms (MDS), myeloproliferative neoplasms (MPN), plasma cell neoplasms (PCN), chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL), and other hematologic neoplasms. The 13q34 (LAMP1) serves as a control. Loss of both RB1 and 13q34 (LAMP1) indicates a monosomy 13. The deletion can be cryptic and detected by FISH analysis but not visible by conventional chromosome analysis.