

ICEme Kit KRAS Panel (Exons 2, 3, 4) Kit Components

The ICEme Kit KRAS Panel contains the components to perform ICE COLD-PCR amplification for mutation enrichment as well as single direction Sanger sequencing for 29 total samples with controls for KRAS exon 2, KRAS exon 3, and KRAS Exon 4. Recommended storage conditions are listed in [Table 1](#).

Table 1: Kit components with recommended storage conditions.

Reagent, ICE COLD-PCR	Lid Color	Color of Label	Volume Total (μL)	Storage (°C)
Primers/RS-Oligo Mix	Clear	Blue	180	-20
2X Polymerase Master Mix	Clear	Green	900	-20
Wild Type Control	Clear	White	18	-20
1% Q61H (A>C) Control	Clear	Red	18	-20
Reagent	Lid Color	Color of Label	Volume Total (μL)	Storage (°C)
Sanger Sequencing Primer, 10 μM	Clear	Orange	40	-20

The kit contains enough reagents to perform 32 total analyses. For optimal usage of the kit, it is suggested that 29 samples are run per batch along with one set of controls.

This kit was designed specifically to detect the following mutations:

1. KRAS exon 2:
 - a. c.34G>A; p.G12S
 - b. c.34G>C; p.G12R
 - c. c.34G>T; p.G12C
 - d. c.35G>A; p.G12D
 - e. c.35G>C; p.G12A
 - f. c.35G>T; p.G12V
 - g. c.38G>A; p.G13D
2. KRAS exon 3:
 - a. c.175G>A; p.A59T
 - b. c.183A>C; p.Q61H
 - c. c.183A>T; p.Q61H
 - d. c.181C>A; p.Q61K
 - e. c.182A>T; p.Q61L
 - f. c.182A>G; p.Q61R
3. KRAS exon 4:
 - a. c.436G>T; p.A146T
 - b. c.436G>C; p.A146P
 - c. c.437C>T; p.A146V

Reagents Required but not Supplied

1. Molecular Biology Grade Water: Thermo Fisher Catalog # AM9937

Optional Reagents not Supplied

1. KRAS Exon 2 G12S Mutation Control: Horizon Discovery Catalog # HD288
2. KRAS Exon 2 G12R Mutation Control: Horizon Discovery Catalog # HD287
3. KRAS Exon 2 G12C Mutation Control: Horizon Discovery Catalog # HD269
4. KRAS Exon 2 G12A Mutation Control: Horizon Discovery Catalog # HD265
5. KRAS Exon 2 G12V Mutation Control: Horizon Discovery Catalog # HD289
6. KRAS Exon 2 G13D Mutation Control: Horizon Discovery Catalog # HD290
7. KRAS Exon 3 A59T Mutation Control: Horizon Discovery Catalog # HD694
8. KRAS Exon 3 Q61L Mutation Control: Horizon Discovery Catalog # HD298