

RT-PCR RESEARCH SOLUTIONS

Analyzing Complex Rare Diseases





Para-Q Multiplex Real Time PCR Kit

- Differential diagnosis in a single test.
- Multiplex kit with coverage of targets specific to Dengue, Malaria & Chikungunya along with Internal Control.



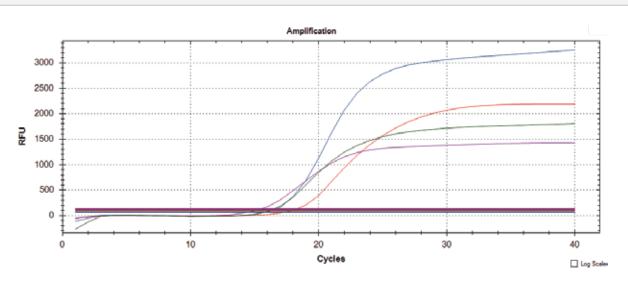
Target Pathogens: Dengue, Malaria & Chikungunya.

Para2-Q Real Time PCR Kit

- Tropical Diseases Fever Panel.
- Febrile infections that are prevalent in or unique to tropical and subtropical regions are collectively known as tropical fevers. They are caused by a number of viruses, bacteria, and protozoa and often get transmitted by an insect bite.
- Tropical diseases can be transmitted through physical contact, by airborne routes, or through sexual contact.
 Many are spread via contaminated food and water sources.
- Identification & differentiation of various vector borne transmission diseases.



Target Pathogens: Dengue, Chikungunya, Zika, Y. Fever, W. Nile & J. Encephalitis.



Para2-Q Real Time PCR specific amplification plot of positive sample for Dengue (FAM channel), Chikunguniya (Texas Red channel), Zika (Cy5 channel) along with internal control (HEX channel).

Chikungunya-Q Real Time PCR Kit

- This test is a rapid method to detect the presence of the Chikungunya virus in the blood.
- The Chikungunya-Q RT PCR can also be used to monitor treatment for the disease & measure the effects of medication.



Target covered: polyprotein gene



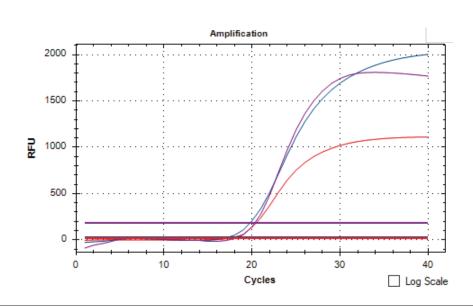
Zika-Q Real Time PCR Kit

- Zika virus is mainly spread by the bite of an infected mosquito, though other routes of infection are possible.
- Zika virus infection can be detected through a blood or urine test.
- Multiplex real- time PCR kit with specific primers and fluorescent probes targeting Zika Virus specific genes.
- One step detection using RNA as template, thus rapid and extremely accurate.

Dengue-Q Real Time PCR Kit

- Dengue fever is caused by the dengue virus, transmitted to humans through the bite of infected mosquitoes, specifically the Aedes aegypti mosquito.
- Four dengue virus strains (DENV-1 to DENV-4) can cause dengue fever.
- People with dengue fever may have no symptoms or experience high fever, headache, muscle and joint pain, nausea, vomiting, and small red or bleeding spots on the skin.
- This kit is designed for the diagnosis of dengue virus in clinical samples with coverage of 4 DENV serotypes DENV 1, 2, 3, 4 along with Internal control.
- 1

Targets covered: DENV1-subgenomic flavivirus RNA (sfRNA1), DENV2, 3, 4- subgenomic flavivirus RNA (sfRNA2).



Dengue-Q Real Time PCR specific amplification plot of positive sample for dengue (FAM and Texas red channel) along with internal control (Cy5 channel).

J. Encephalitis-Q Real Time PCR Kit

- Japanese encephalitis virus (JEV) is a flavivirus related to dengue, yellow fever and West Nile viruses, and is spread by mosquitoes.
- Detection of Japanese encephalitis in cerebrospinal fluid (CSF) & serum specimens from patients.
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Target Covered: Polyprotein gene.



Y. Fever-Q Real Time PCR Kit

- Yellow fever is a viral disease that is transmitted to humans by the bites of infected mosquitoes. It is prone to epidemics and is preventable with a vaccine. These day-biting mosquitoes breed around houses (domestic), in forests or jungles (wild), or in both habitats (semi-domestic).
- Allergic rhinitis commonly known as hay fever is a group of symptoms affecting the nose.
- Detection of Yellow Fever Virus specific gene targets in patients with signs and symptoms of infection.

W. Nile-Q Real Time PCR Kit

- West Nile Virus (WNV) belongs to the RNA virus family of Flaviviridae. It is known to spread primarily through arthropod vectors such as mosquitoes.
- The virus infects mainly birds but is also reported to infect humans as well as pets such as cats and dogs.
- Detection of West Nile Virus (WNV) specific polyprotein gene in clinical samples.



Target Covered: Polyprotein gene

Malaria-Q Real Time PCR Kit

- Malaria is caused by parasites which are spread to humans through the bites of infected mosquitoes. People who have malaria usually feel very sick with a high fever and shaking chills.
- Kit enables detection of malarial parasite specific 18S SSU rRNA gene in blood, serum/plasma samples.



Target Pathogens: Plasmodium knowlesi, Plasmodium vivax, Plasmodium falciparum, Plasmodium ovale, Plasmodium malariae.

Ordering Information

Commercial Name	Cat No.	Pack Size	Compatible Instruments	
Para-Q Multiplex Real Time PCR Kit	G2M706121	50 T	Instruments with FAM,	
Para2-Q Real Time PCR Kit	G2M801521	50 T	ROX/Texas Red, Cy5, HEX/VIC Channels including Genes2Me's RapiyCycler 96, ABI Prism®7500 & Quantstudio,	
Chikungunya-Q Real Time PCR Kit	G2M705321	50 T		
Zika Real Time PCR Kit	G2M262621	50 T		
DENGUE-Q Real Time PCR Kit	G2M705021	50 T	BioRad CFX96, Roche	
J.encephalitis -Q Real Time PCR Kit	G2M802021	50 T	Lightcycler, Qiagen Rotor-Gene.	
Y. Fever-Q Real Time PCR Kit	G2M801821	50 T		
W. Nile-Q Real Time PCR Kit	G2M802321	50 T		
Malaria-Q Real Time PCR Kit	G2M706221	50 T		





• Thrombosis-Q Comprehensive Real Time PCR Kit

- YCM-Q Real Time PCR Kit
- BT-Q Real Time PCR Kit
- SCA-Q Real Time PCR Kit

Genetic **Disorders**

These kits are designed to detect different mutations associated with specific genetic disorders. These assays are compatible with commonly available Real-Time PCR instruments.

Thrombosis-Q Real Time PCR Kit

- Thrombosis-Q Comprehensive Real Time PCR Kit is an in vitro diagnostic test for the detection of Thrombosis specific mutation in DNA extracted from human biological samples.
- Mutations Covered: Factor II mutation in the 3'UTR region of FII gene i.e. G20210A (Prothrombin mutation/a change of guanine to adenine) and Factor V Leiden mutations i.e. G1691A mutation, MTHFR C677T mutation and MTHFR A1298C mutation.

YCM-Q Real Time PCR Kit (Y Chromosome Micro deletion)

YCM-Q Real Time PCR Kit for Y Chromosome Micro deletion is an in vitro diagnostic test for the detection of micro deletions in human Y chromosome DNA extracted from clinical samples.



Mutations Covered: 14 micro deletions in human Y chromosome associated with male infertility.



BT-Q Real Time PCR Kit (Beta Thalassemia)

• BT-Q Real Time PCR kit is an in vitro diagnostic test for the detection of Beta Thalassemia mutation in human DNA extracted from clinical samples.



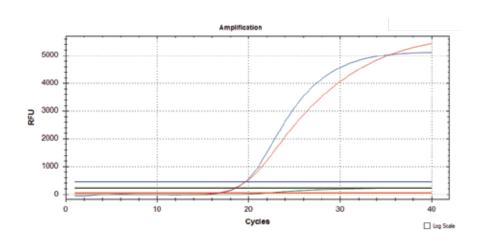
Mutations Covered: 7 somatic mutations in human beta globin gene associated with genetic risk.

SCA-Q Real Time PCR Kit (Sickle Cell Anemia)

- SCA-Q Real Time PCR Kit is an in vitro diagnostic test for the detection of Sickle Cell Anemia mutation in human DNA extracted from clinical samples.
- Intends for detection of sickle cell anemia i.e. human beta globin GAG GTG [Glu-Val] mutation in human DNA extracted from clinical samples.
- It contains reagents and enzymes for the specific amplification for the direct detection of the specific amplicon in FAM fluorescence channel.



Mutations Covered: GAG - GTG [Glu-Val] mutation.



SCA-Q Real Time PCR specific amplification plot of positive sample for SCA-Q (Texas red channel) along with internal control (Cy5 channel).

Ordering Information

Commercial Name	Cat No.	Pack Size	Compatible Instruments
Thrombosis-Q Comprehensive Real Time PCR Kit	G2M803421	50 T	Instruments with FAM, ROX/Texas Red, Cy5, HEX/VIC Channels including Genes2Me's RapiyCycler 96, ABI Prism®7500 & Quantstudio, BioRad CFX96, Roche Lightcycler, Qiagen Rotor-Gene.
YCM-Q Real Time PCR Kit	G2M803021	50 T	
BT-Q Real Time PCR Kit	G2M803321	50 T	
SCA-Q Real Time PCR Kit	G2M803221	50 T	