

GC-Platinum Power Taq PCR 2X Master Mix

Description

Power Taq 2 X Master Mix is a “**High Fidelity**” Ready To Use new PCR reagent with wide adaptability and can be applied to a variety of DNA templates from different species: Plants, Animals (mouse tails, etc.) Human. This Power Taq is suitable for amplification of different **GC contents**. Power Taq PCR 2X Master Mix has strong tolerance to PCR inhibitors, and also has good amplification performance for crude samples. Power Taq PCR 2X Master Mix can effectively amplify fragments below 10Kb. For simple samples, the amplification speed can reach 5s/kb, and for complex samples the amplification speed can reach 15-30 s/kb. Power Taq PCR 2X Master Mix is very fast to operate you only need to add template, primers and H₂O when using it. Power Taq PCR 2X Master Mix is, can be used for Plant Transgene identification colony PCR, gene cloning and genotyping.

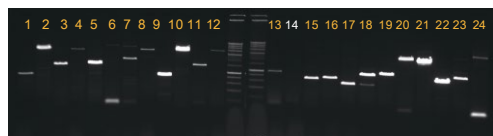
Features

- **Wide-adaptability** : Can be applied to a variety of DNA templates from different species, different types, and different GC content.
- **High speed**: For simple samples, the amplification speed can reach 5s/kb, and for complex samples the amplification speed can reach 15-30 s/kb.
- **"High Fidelity"** (6.5 times of Taq enzyme).

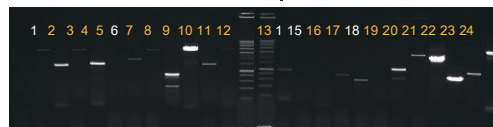
Product	Cat.	Size	Note
GC-Platinum Power Taq PCR 2X Master Mix	FS-T-1642-10	10 ml	without dye
GC-Platinum Power Taq PCR 2X Master Mix Blue Dye	FS-T-1641-5	5 ml	with dye

Wide-adaptability

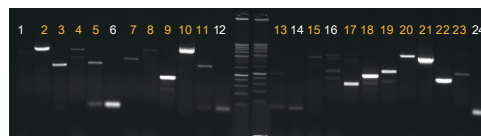
GC-platinum Power TaqPCR2x Master Mix 23 primers



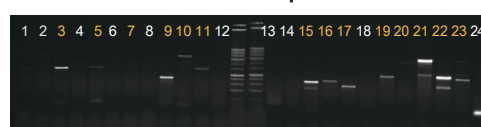
Vendor B 19 primers



Vendor A 17 primers



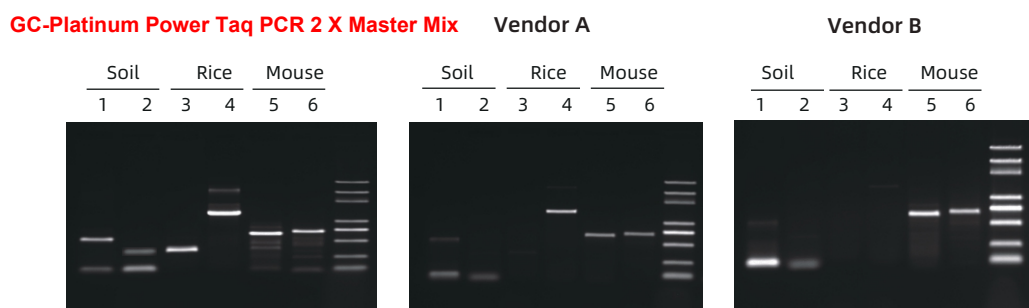
Vendor C 14 primers



1-2:Human gDNA; 3-4:Rat gDNA ; 5-6:Mouse gDNA; 7-8:Wheat gDNA ; 9-10:Rice gDNA ; 11-12:Human cDNA; 13-14:plant cDNA; 15-16:high GC DNA (62.7%-78.1%); 17-18:high AT DNA (59%-77%) 19-20:Arabidopsis gDNA ; 21-22:Lambda DNA ; 23-24:Corn gDNA

Use 24 pairs of representative primers for amplification to compare the amplification success rate of GC-Platinum Power Taq and other competing products
 Conclusion: Power Taq PCR 2X Master Mix can successfully amplify 23 pairs of the 24 primers, and the amplification success rate is significantly higher than other competing products.

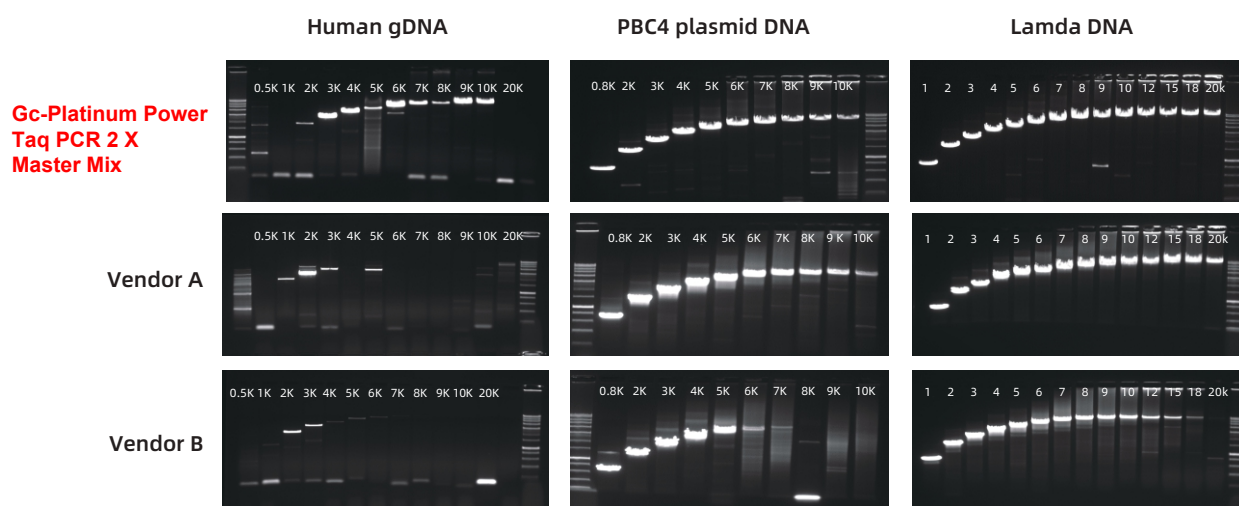
Performance for Crude Samples



PCR detection of crude extracts from soil, rice and mouse tail

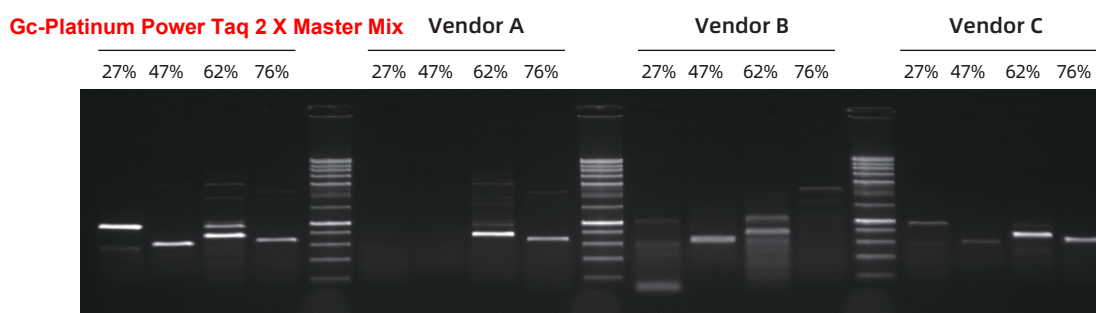
Conclusion: **GC-Platinum Power Taq PCR 2 X Master Mix** is superior to other competitors on the performance of crude samples amplification.

Long Fragments Amplification



Conclusion: **GC-Platinum Power Taq PCR 2 X Master Mix** can amplify Human gDNA up to 10Kb, PBC4 (plasmid) DNA up to 10Kb, and Lambda DNA up to 20Kb. **GC-Platinum Power Taq 2X Master Mix** has the best performance on the long fragments amplification over other competitors.

GC Content Compatibility



Using **GC-Platinum Power Taq 2 X Master Mix** and competitor products to amplify four target genes with different GC content (27%, 47%, 62%, 76%). Conclusion: Power Taq 2 X Master Mix has a better amplification success rate and yield than competing products.

Distributed by: