

GeNei™ MAGIC Amplification Kits

Description: The kits include all the essential reagents required for standard amplifications along with a unique MAGIC solution. MAGIC solution is a unique blend that enhances PCR by eliminating secondary structure denaturation-related limitations caused by GC-rich template, and thereby ensuring specific amplification of such products. MAGIC solution can be used in combination with both Taq DNA Polymerase (Cat. # 105612) as well as XT-5 PCR System (Cat. # 105613). Control DNA with primers that amplify a 600 bp fragment having 75 % GC-rich sequence, is supplied for 10 control reactions.

The kit provides sufficient reagents to perform 50 reactions.

Application:

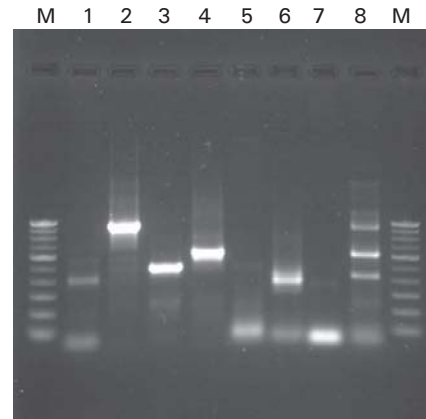
- Amplification of GC-rich (up to 80%) templates
- Amplification of repeat sequences
- Multiplex PCR amplification from GC-rich templates

Highlights:

- The kit ensures amplification of up to 80% GC-rich sequences
- **MAGIC** solution does not alter the fidelity of the PCR enzymes
- **MAGIC** solution in combination with Taq DNA Polymerase should be used for:
 1. PCR products (up to 3 kb in size)
 2. PCR products to be cloned in T/A cloning vector
- **MAGIC** solution in combination with XT-5 PCR System should be preferred for:
 1. High fidelity amplification of PCR products
 2. PCR amplification of products up to 5 kb in size
 3. Multiplex PCR amplifications

Ordering Information:

Product	Size	Cat #
GeNei™ MAGIC Amplification Kit 1 (For GC-rich template) Using Taq DNA Polymerase (50 Reactions)	1 Pack	105612
GeNei™ MAGIC Amplification Kit 2 (For GC-rich template) Using XT-5 PCR System) (50 Reactions)	1 Pack	105613



Amplification of GC-rich DNA fragments (70% - 80%) from Fragile-X region of human genome. Fragments, 900 bp, 600 bp and 400 bp containing 70%, 75% and 80% GC-rich sequences respectively, were amplified using standard DNA amplification system (lanes 1, 3 and 5) or **GeNei™ MAGIC** Amplification Kit (lanes 2, 4 and 6). Multiplex PCR to amplify all 3 DNA fragments together are shown in lane 7 (standard PCR reaction) and 8 (**GeNei™ MAGIC** Amplification kit). Lane M-100 bp DNA ladder.

Storage: -20°C

Materials provided:

1. Taq DNA polymerase and Assay Buffer (Cat. # 105612) or XT-5 PCR System and Assay Buffer (Cat. # 105613)
2. 2.5X **MAGIC** Solution
3. 10 mM dNTP Mix
4. Control DNA and Primers for 10 reactions
5. 100 bp DNA Ladder (Ready to use)
6. Instruction Manual