



Genetic Tools and Reagents

DNA Molecular Weight Markers, Unlabeled markers, Fluorescent dye labeled markers, Genotyping, GScan™ & Genetic Analyzer Markers

GScan™ 2 Tamra Labeled DNA Molecular Weight Markers

	Catalog No	Description	Quantity
<input type="checkbox"/>	40-3062-01	Omni-Marker™ GScan™2 Tamra labeled 50 bp- 600 bp	100 µl
<input type="checkbox"/>	40-3062-05	Omni-Marker™ GScan™2 Tamra labeled 50 bp- 600 bp	500 µl

Genetic analysis of microsatellites, SNP, allelic discrimination, polymorphic fragment analysis and triple repeat amplification with fluorescent dyes require the parallel co-migration of appropriate molecular weight markers for accurate determination of fragment size.

GScan™ markers have been especially developed for the above applications. These are supplied ready to load and provide highly consistent fragment sizing.

GScan™2 Tamra labeled DNA molecular weight markers is a size standard developed for use with appropriate fluorescent genetic analyzers. This product has been tested on the Applied Biosystems fluorescence-based DNA electrophoresis systems.

This product is specifically designed to have a high density of sized fragments 200bp to 300bp region. The use of an internal lane size standard is essential for achieving high run to run precision in sizing DNA fragments by electrophoresis. GScan™2 is composed of the 23 DNA fragments of the following sizes; 80, 100, 120, 140, 160, 180, 200, 210, 220, 230, 240, 250, 260, 275, 290, 320, 350, 365, 410, 440, 500, 560 and 605 bp.

The GScan™2 Tamra labeled DNA molecular weight markers are stringently designed and contains purified fragments. These will yield consistent electrophoretic pattern under identical conditions with fragments containing nearly equimolar base composition. Caution should be exercised to determine fragment size of fragments that predominantly contain base repeats and high composition of individual bases. Specific examples are sizing the triple repeat amplified fragments.

Material Supplied

One tube containing 100µL of Tamra labeled molecular weight markers in TE (10 mM Tris pH 7.5, 1 mM EDTA). The amount is sufficient for 200 analyses when using the recommended loading amount of 0.5µL. The product may be aliquoted in smaller volumes and stored frozen.

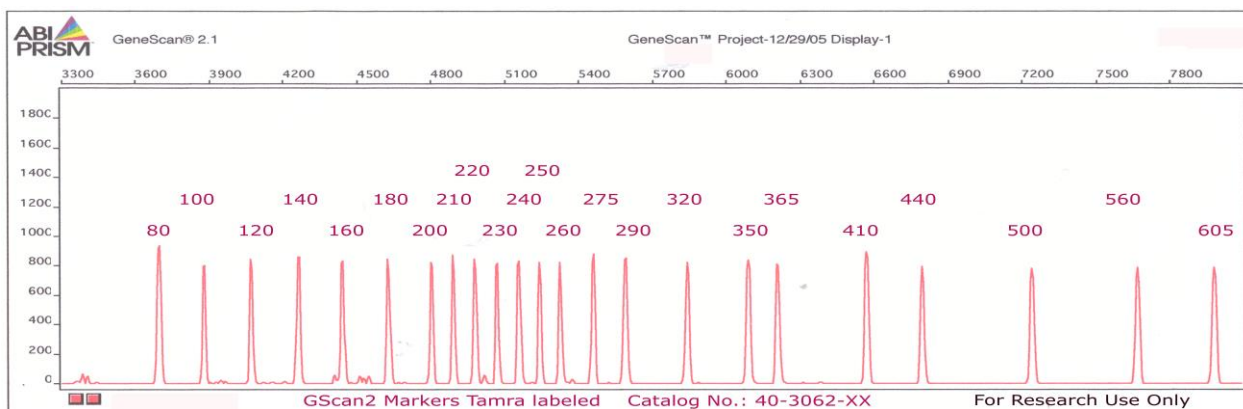
Storage

The product should be kept frozen at -20°C (repeated freeze-thawing is not recommended). It may be stored for up to six months at 2 to 4°C.

Directions for Use

Before use, mix the contents of each tube thoroughly and centrifuge briefly to collect the liquid at the bottom of the tube. Suggested loading is given below. Immediately before loading, heat the loading cocktail at 90° C for two minutes, cool on ice and load samples as soon as possible.

Component	Volume
Sample	1.0 µL
Deionized Formamide	12 µL
GScan™ Tamra Marker	0.5 µL



Ordering Information

Omni-Marker™ dye labeled markers

Product	Catalog No.	Size*
Omni-Marker™ GScan™2 Tamra labeled 50 bp- 600 bp	40-3062-01	100 µL
Omni-Marker™ GScan™2 Tamra labeled 50 bp- 600 bp	40-3062-05	500 µL
Omni-Marker™ GScan™2 Hex labeled 50 bp- 600 bp	40-3081-01	100 µL
Omni-Marker™ GScan™2 Hex labeled 50 bp- 600 bp	40-3081-05	500 µL

*A loading of 0.5µL is suggested.

Related Products Ordering Information

Omni-Marker™ unlabeled DNA molecular weight markers*

Product	Catalog No.	Size*
Omni-Marker™ Universal unlabeled	40-3005-01	100 µL
Omni- Marker™ Universal unlabeled	40-3005-05	500 µL
Omni-Marker™ Universal unlabeled	40-3005-10	1 mL
Omni- Marker™ Low unlabeled	40-3006-01	100 µL
Omni-Marker™ Low unlabeled	40-3006-05	500 µL
Omni- Marker™ Low unlabeled	40-3006-10	1 mL

* The markers are provided ready to load containing BPB/XC dyes. A loading of 5µL/well is suggested.

Loading Buffers

Product	Catalog No.	Size
Loading Buffer 5X BPB/XC non-denaturing	40-3002-01	100 µL
Loading Buffer 5X BPB/XC non-denaturing	40-3002-10	1 mL
Loading Buffer 5X Orange G/XC non-denaturing	40-3004-01	100 µL
Loading Buffer 5X Orange G/XC non-denaturing	40-3004-10	1 mL
Loading Buffer 2X BPB/XC Denaturing for Sequencing	40-5027-01	100 µL
Loading Buffer 2X BPB/XC Denaturing for Sequencing	40-5027-10	1 mL

Prices subject to change without notice.

All Gene Link products are for research use only.