

ClearBand Prestained Protein Marker II

Troubleshooting Guide

250 µL / 50 loads

Cat No: PM11

Use this guide for common marker problems with ClearBand Prestained Protein Marker II. The ready-to-use marker contains 11 prestained proteins spanning 8-270 kDa, with reference bands at 8, 30, and 90 kDa, and is designed for Tris-glycine SDS-PAGE and Western transfer monitoring.

Before You Start - Quick Checks

1. Store at 4°C for up to 3 months or -20°C for up to 24 months.
2. Mix gently by pipetting up and down before loading.
3. Load 5 µL directly into the gel well; the marker is already supplied in loading buffer.
4. Use the 8-, 30-, and 90-kDa reference bands to orient the marker pattern.

Problem	Most likely cause	Recommended action
Marker bands are faint	Too little marker may have been loaded or the marker may not have been mixed before loading.	Mix gently by pipetting and load 5 µL directly into the gel well.
Marker pattern is difficult to orient	The three reference bands may not have been identified.	Use the differently colored reference bands at 8, 30, and 90 kDa to orient the 11-band pattern.
Target appears outside the marker range	The protein may be below 8 kDa or above 270 kDa.	Use a molecular-weight standard with an appropriate range when the target lies outside 8-270 kDa.
Marker lane is distorted	The marker may have been overhandled or loaded inconsistently.	Mix gently and load the stated 5 µL without adding extra loading buffer.
Transfer cannot be evaluated from the marker	The marker lane may not have transferred uniformly or the transfer setup may be uneven.	Use the prestained bands as a transfer monitor and correct the upstream transfer assembly if the lane is incomplete.
Marker was mixed with additional sample buffer	The product is already supplied in gel loading buffer.	Load the marker directly after gentle mixing rather than adding more loading buffer.
Performance changes during storage	The storage period or temperature may be outside the stated conditions.	Use 4°C storage for up to 3 months or -20°C storage for up to 24 months.
Molecular-weight estimate is inconsistent between runs	Gel system or migration conditions may differ.	Use the marker with a consistent Tris-glycine SDS-PAGE system when comparing apparent molecular weights between experiments.

Still having trouble? Recheck storage duration, gentle mixing, the 5-µL load, the 8/30/90-kDa reference bands, and the 8-270-kDa range before troubleshooting the target sample.