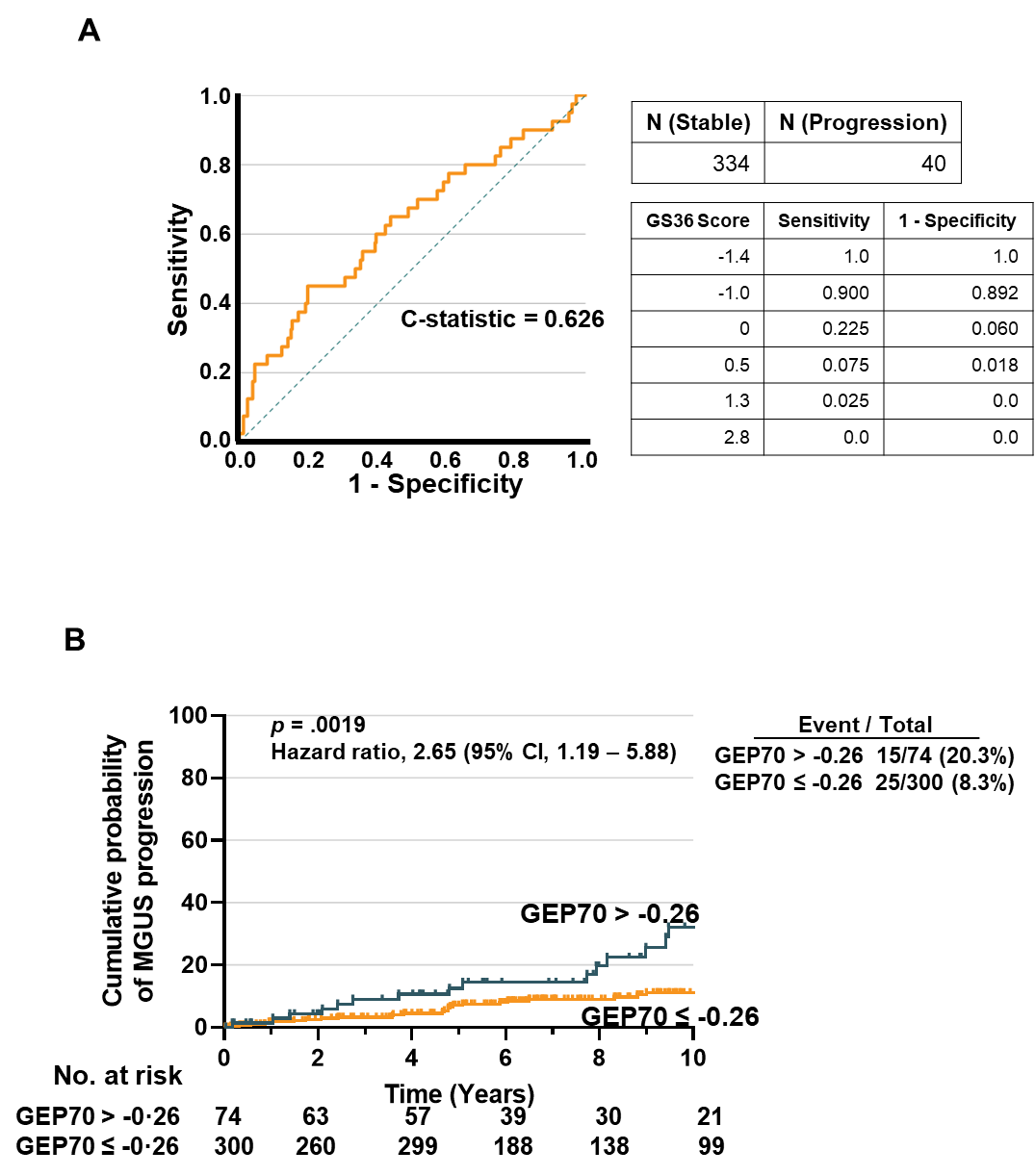
Additional file 1: Supplementary Figures

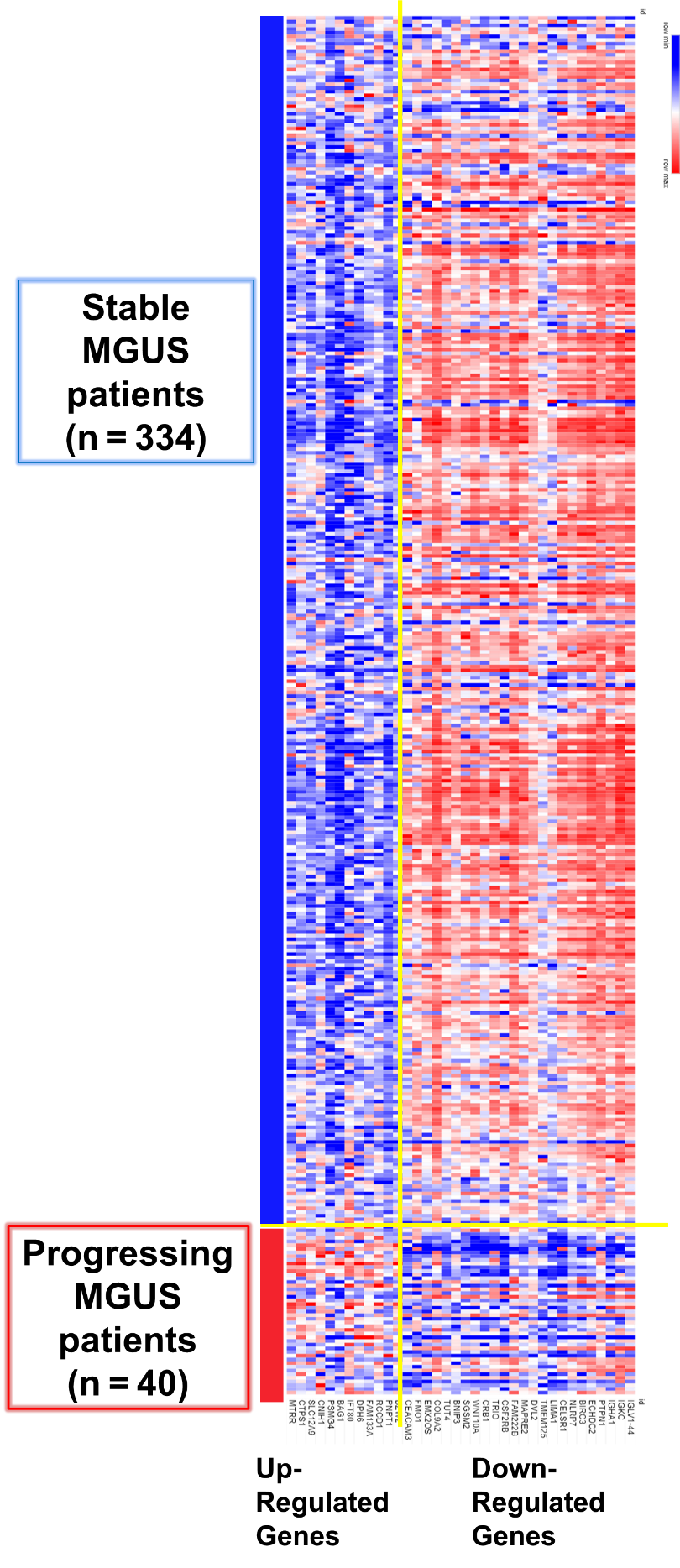
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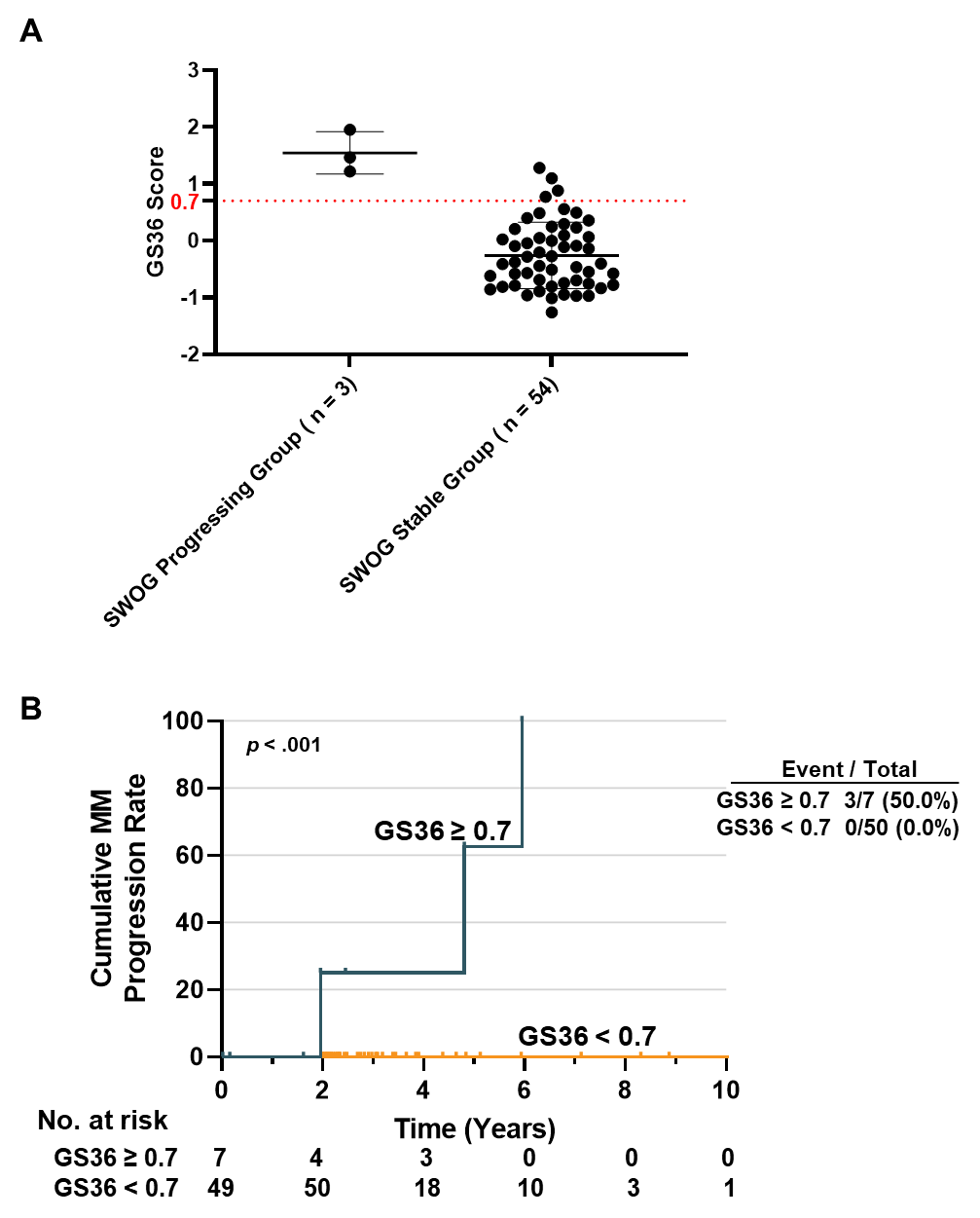
**Figure S1. MGUS Time-to-progression Curves based on GEP70.** (A). Receiver operating characteristic curve (ROC) based on GEP70. The C-statistic of ROC is 0.626; (B) Time-to-progression curve based on GEP70.



**Figure S2. The heatmap of the GS36 genes expression profiles** (red, relative high expression; blue, relative low expression) between stable and progressing risk groups.



**Figure S3. External validation using an independent datasets SWOG-S0120.** (A) The scatter plot of GS36 score in SWOG-S0120 datasets. Three patients progressed to MM within 10 years, while the other 54 MGUS had not progressed. Among three patients who developed MM, all three had a GS36 ≥ 0.7. For the remaining 54 stable patients, only 4 patients had GS36 ≥ 0.7. (B) Time-to-progression curve of SWOG-S0120 datasets based on GS36.



**Figure S4. MGUS Time-To-Progression Comparison on Mayo Risk Model and Memorial Sloan Kettering Cancer Center (MSK) Risk Model.** (A) 10-year-progression curve based on Mayo risk model. (B) 10-year-progression curve based on MSK risk model. (C) Venn diagram depicting the overlapping quantities of the patients considered high-risk by UAMS, MSK, and Mayo models. The green panel represents MSK model; the blue panel represents Mayo model; the red panel represents UAMS model.

