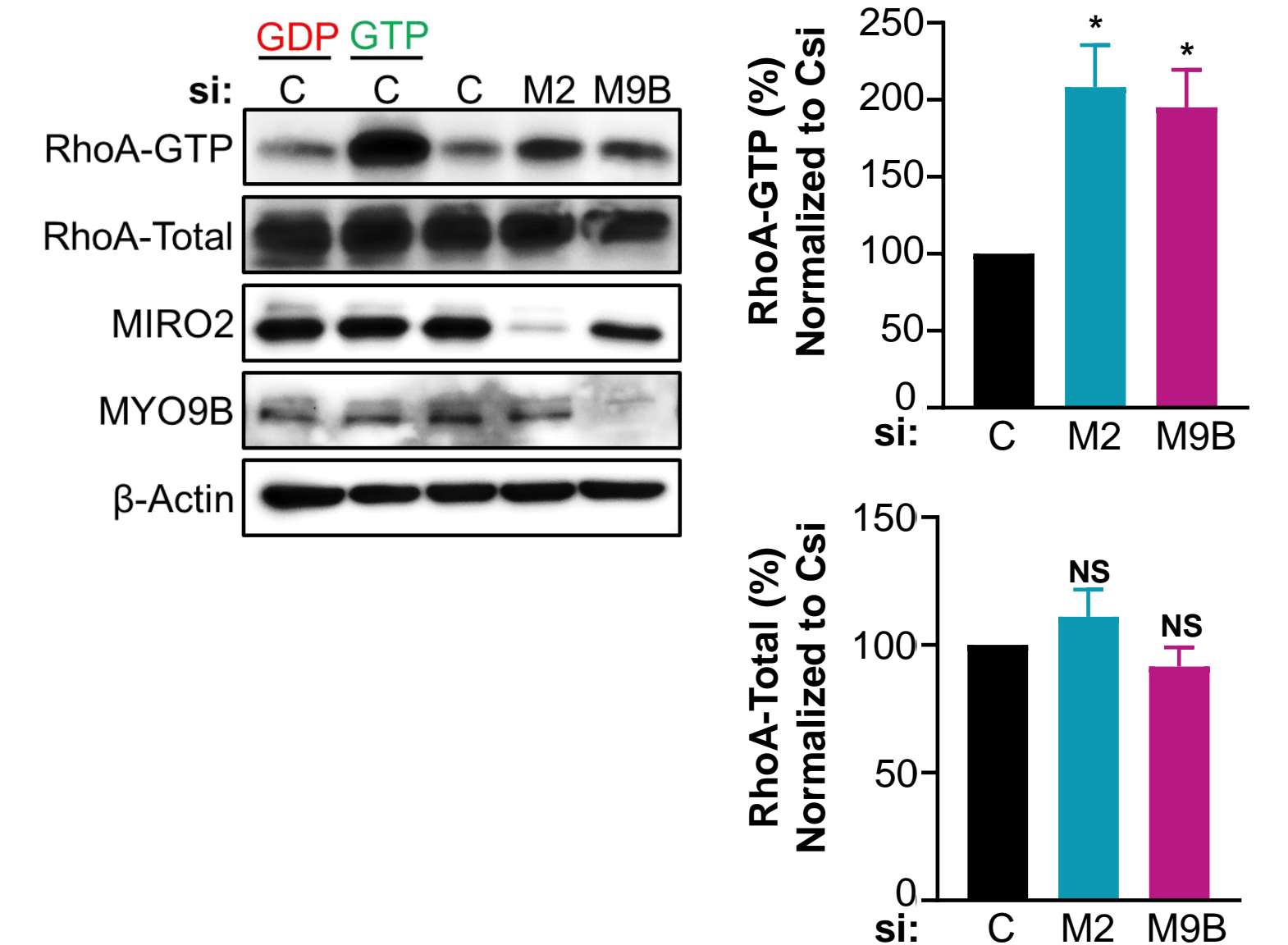


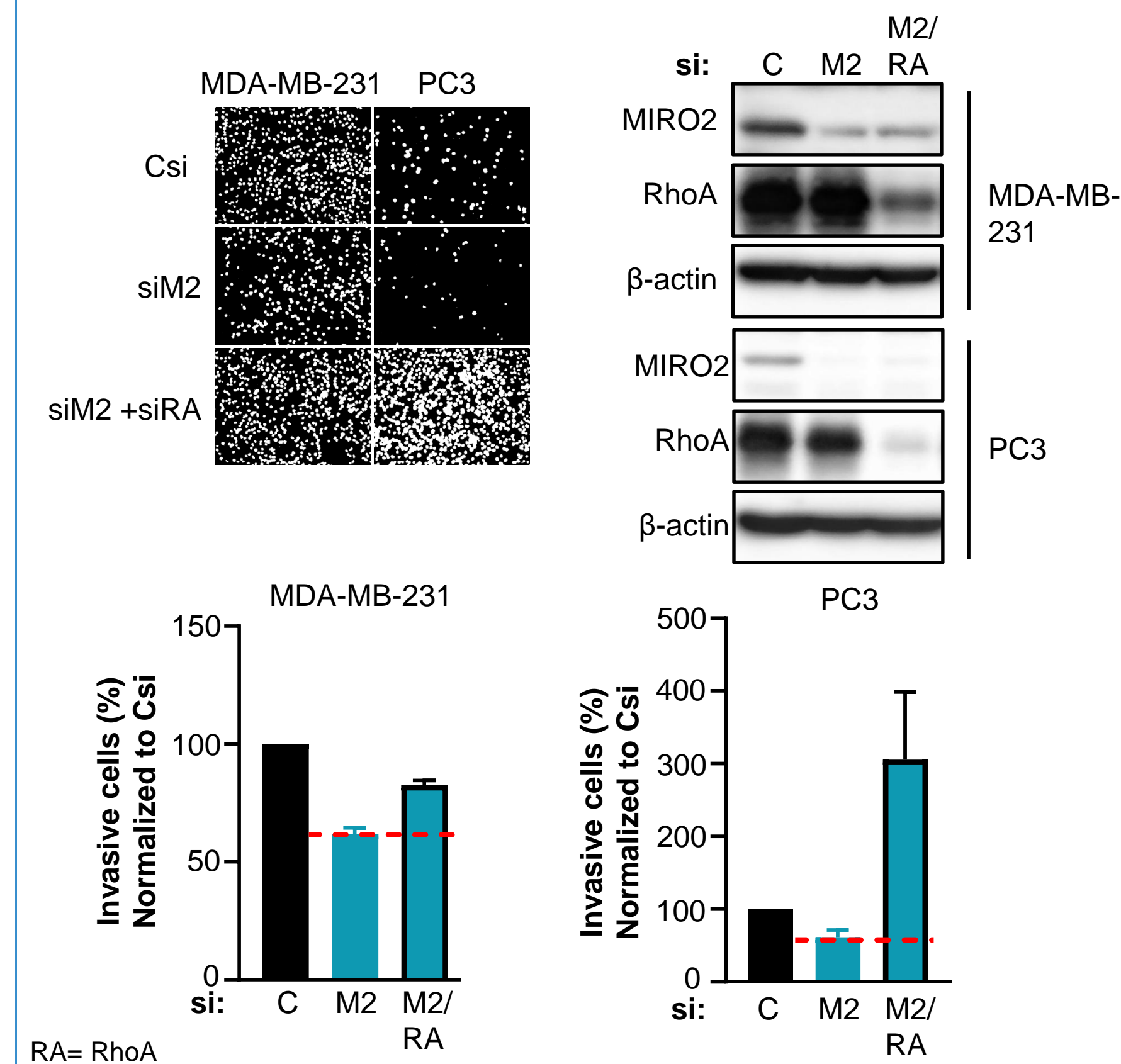
## Results

## Results

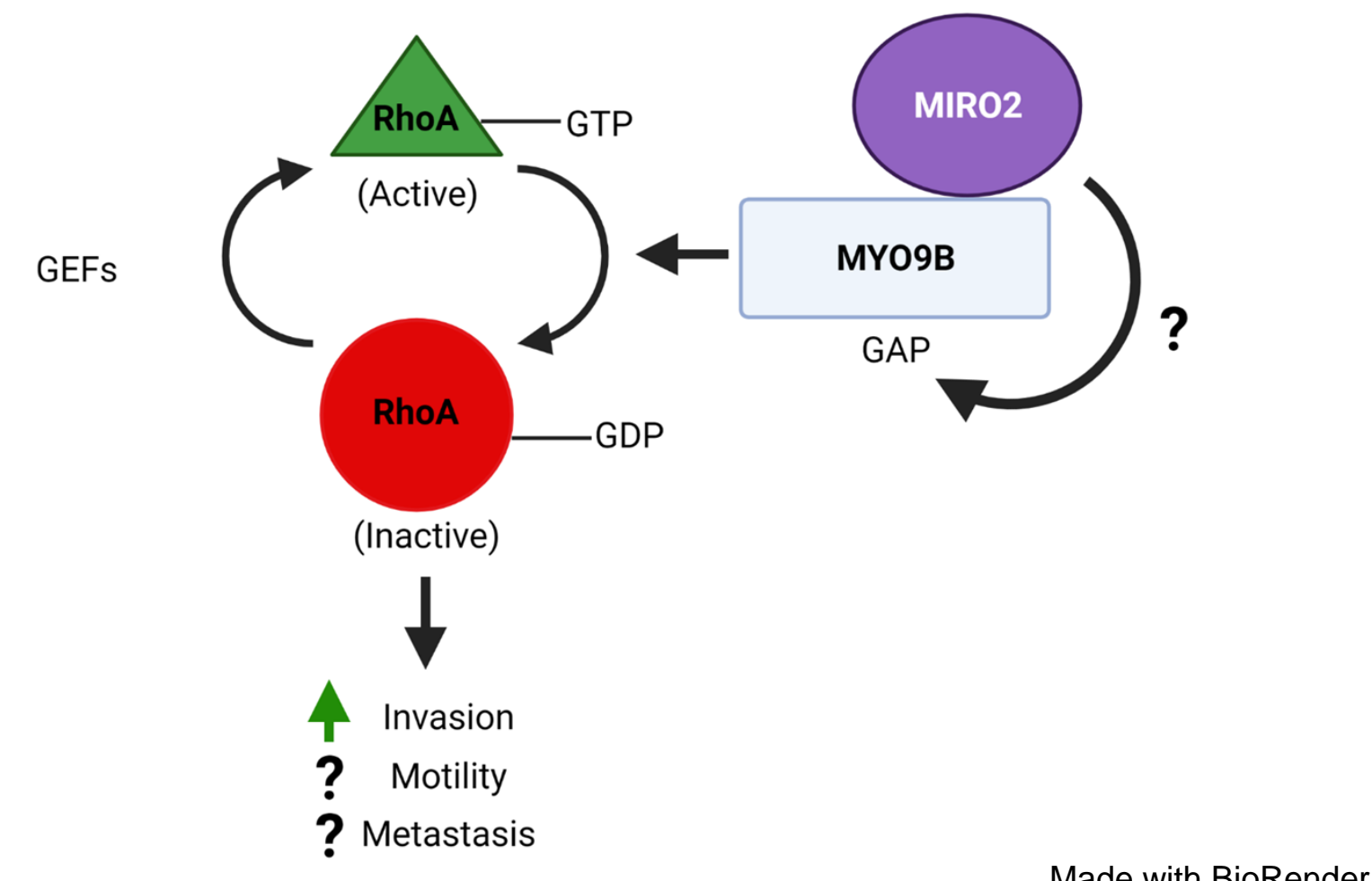
## Dual ablation of MIRO2 and RhoA rescues invasive capacity of cells



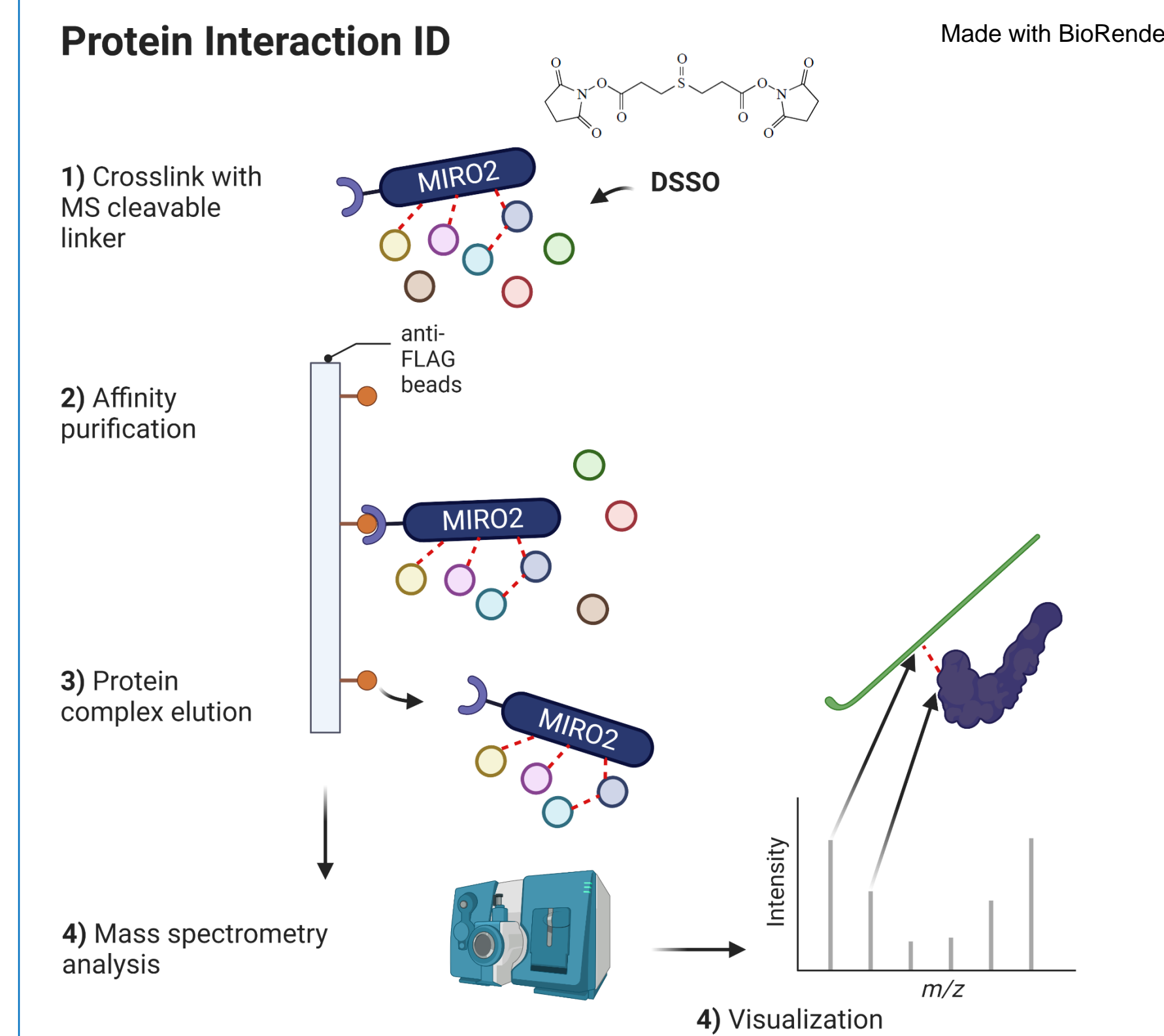
Dual ablation of MIRO2 and RhoA rescues invasive capacity of cells N=2



## Future Directions



## Protein Interaction ID



- Solidify MIRO2 in metastasis using models that metastasize from the orthotopic site

- Determine if increases in active RhoA after MIRO2 ablation is through MYO9B
  - Rescue experiments with exogenous expression of MYO9B<sup>WT</sup> or MYO9B<sup>GAPmut</sup>.

- Establish mutants that selectively ablate interaction between MIRO2 and MYO9B
  - Is loss of invasive capacity and metastatic burden through MIRO2 and MYO9B interaction?

This work was supported by: the American Cancer Society IRG-16-184-56; Boettcher Foundation AWD-193249; Department of Defense W81XWH-21-1-0408; National Institutes of Health R35 GM142774 and T32 GM007635; The Cancer League of Colorado AWD-193451-JT; and Cancer Center Support Grant (CCSG) P30 CA046934.

Pharmacology T32 Training Grant GM007635-41 and GM007635-42; NIH/NCI F-31 (F31 CA271652-01)

Thesis Committee: Dr. Chandra Tucker (chair), Dr. Heide Ford, Dr. David Jones, Dr. Arianne Theiss, Dr. Andrew Thorburn