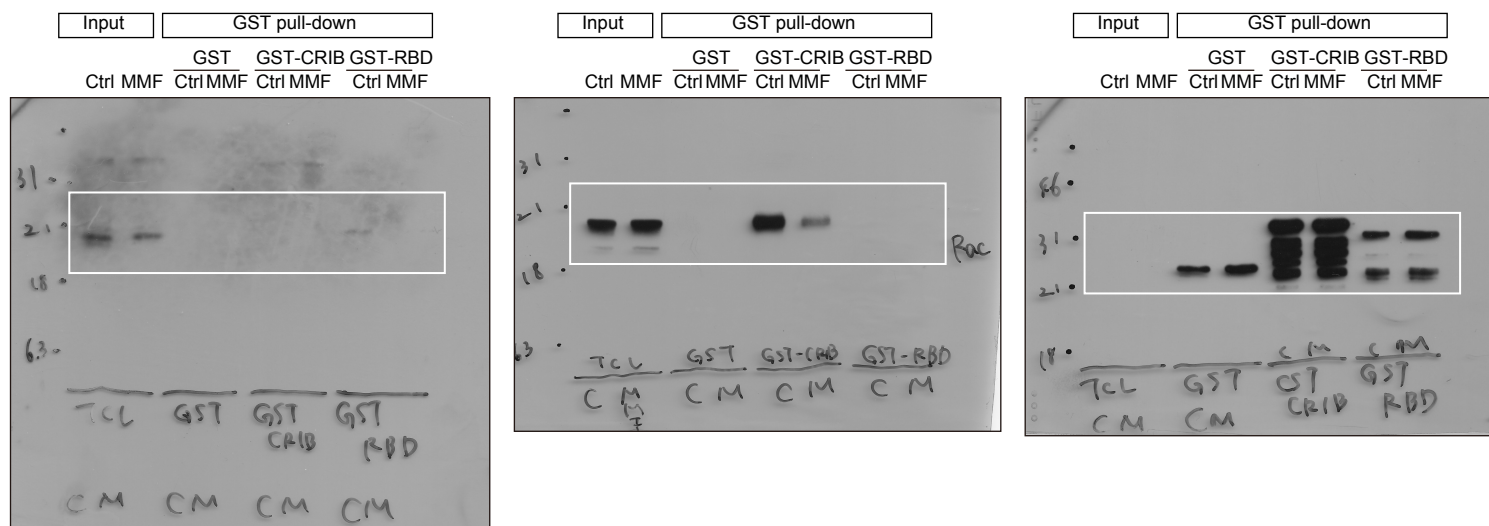
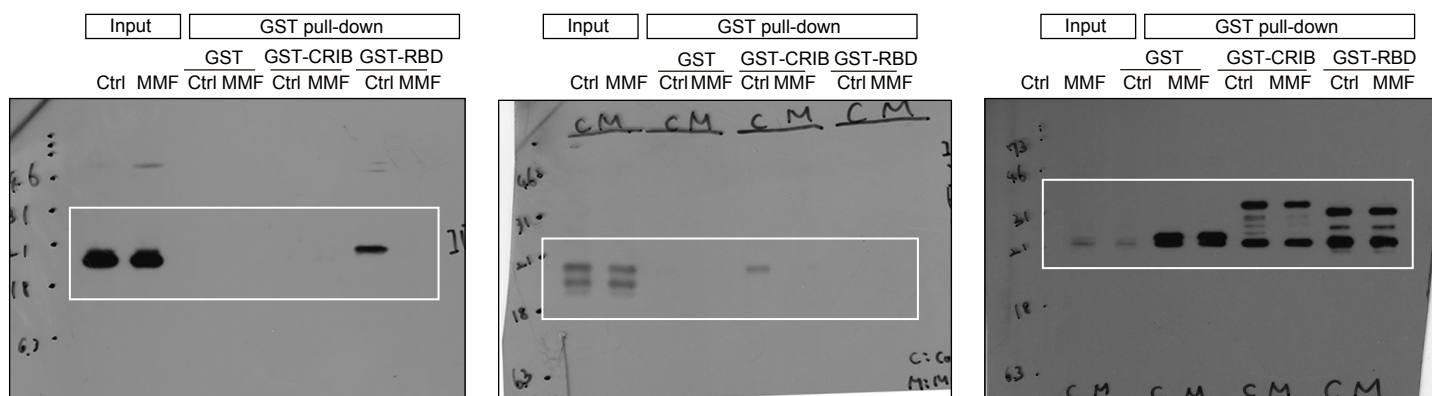




Supplementary Data 1

Overall images of the gel in the Fig.3B before cropping



Supplementary Data 2

Overall images of the gel in the Fig.4A before cropping

Parameters	
Polarity	Negative
Pitch	50 μm
m/z range	m/z 350-550
DL temperature	290°C
Heat block temperature	450°C
Sample voltage	-4.50 [kV]
Detector voltage	2.16 + 0.2 [kV]
Repetition number	1000 [Hz]
Laser shots	50 [shots]
Laser diameter	4
Laser power	68.0

Supplementary Table 1

Parameters used for the optimization and data acquisition