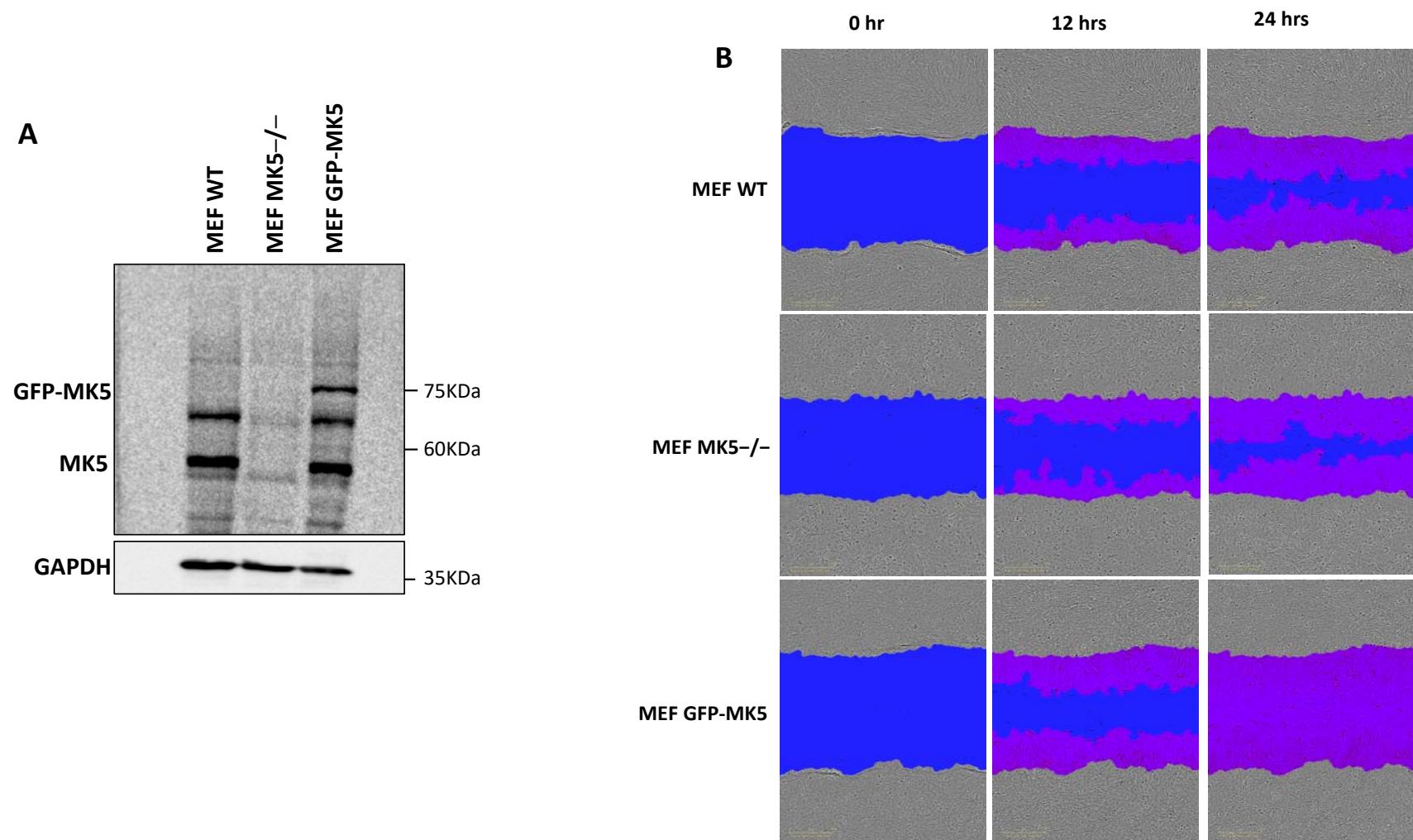
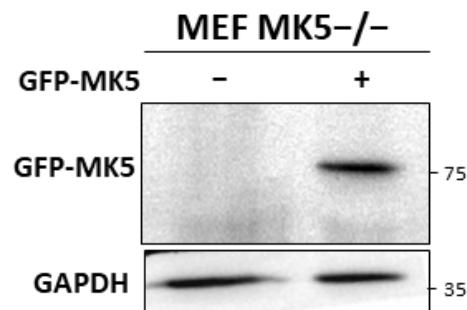


Supplementary Figure: S1

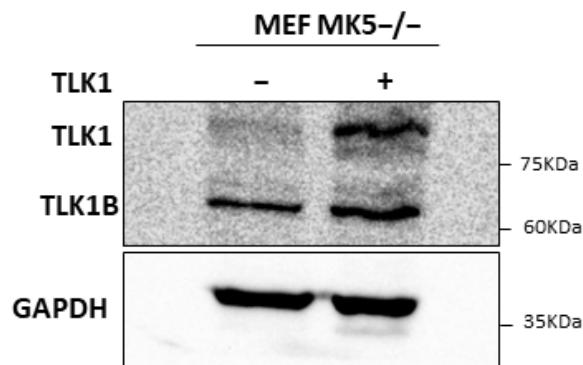


Supplementary Figure: S2

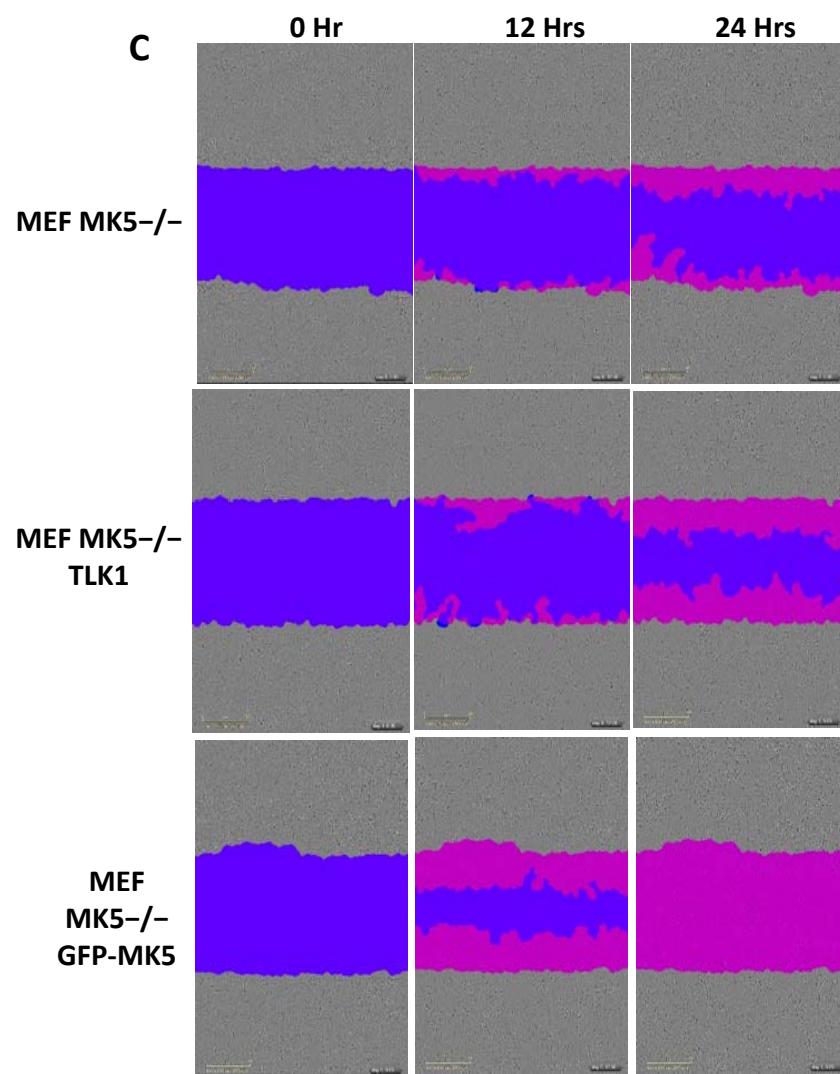
A



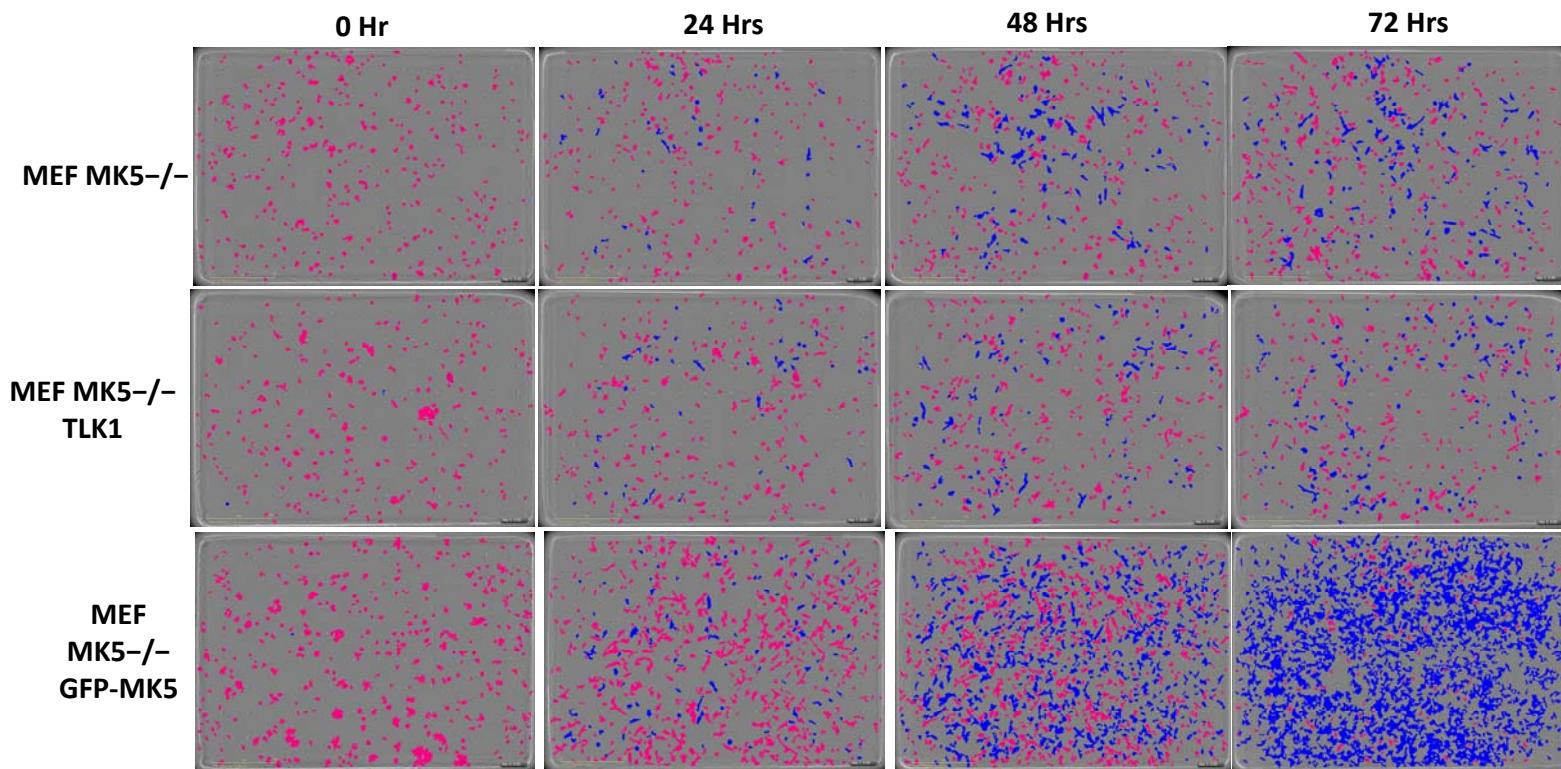
B



C

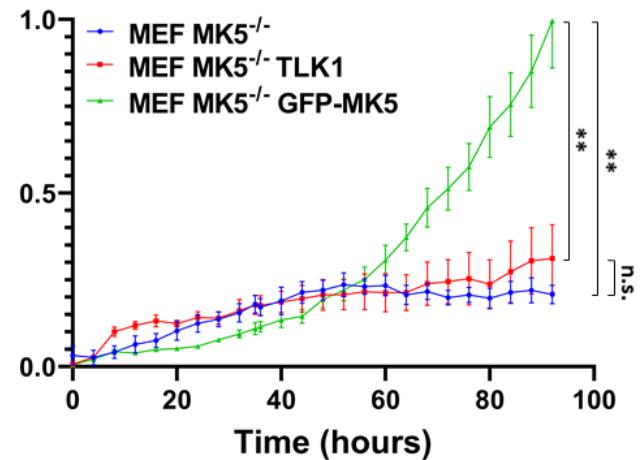


Supplementary Figure: S3

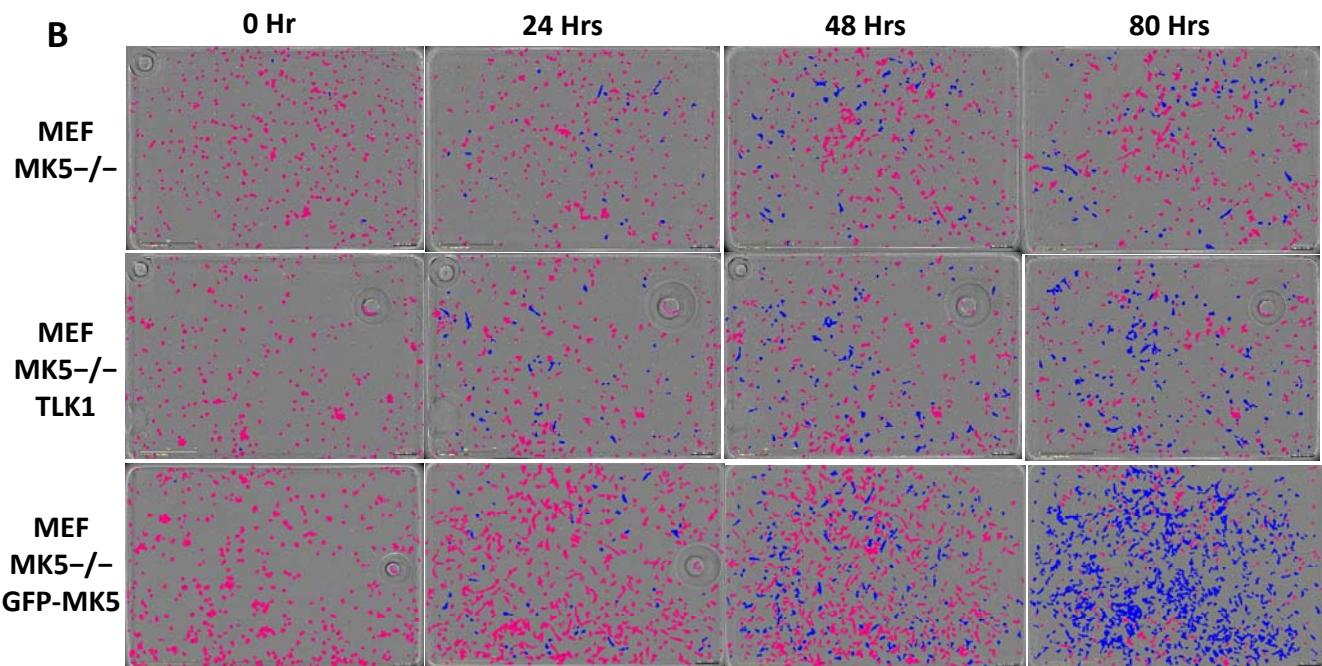


Supplementary Figure: S4

A Chemotactic migration (%)

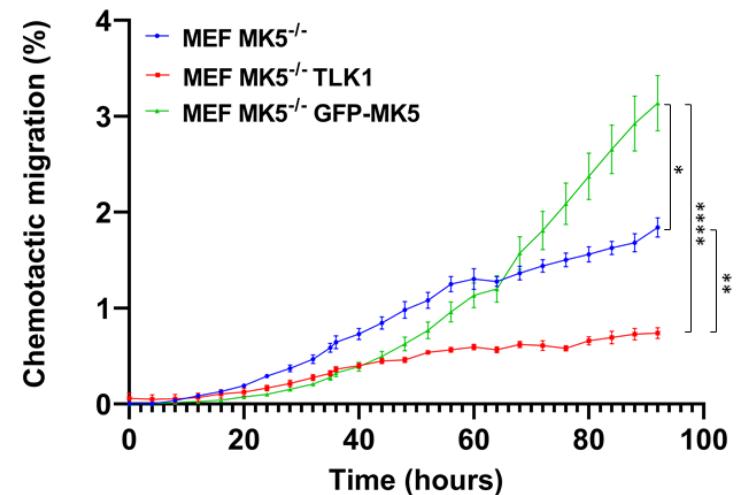


B

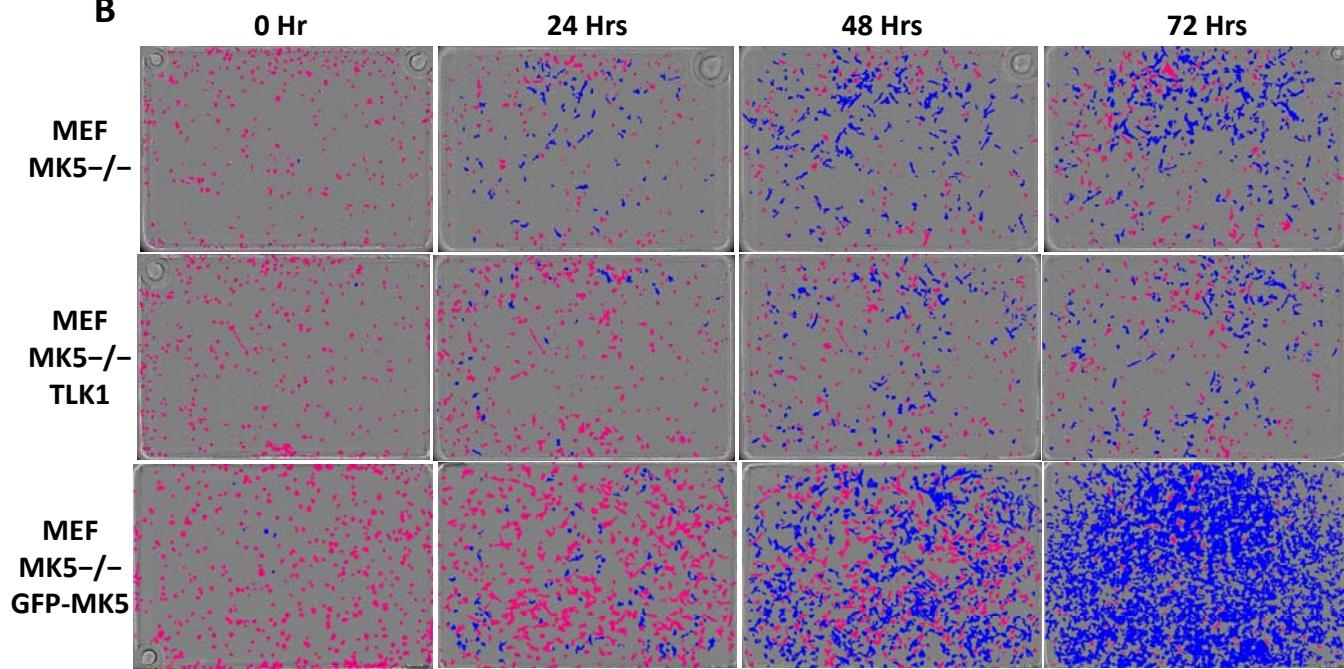


Supplementary Figure: S5

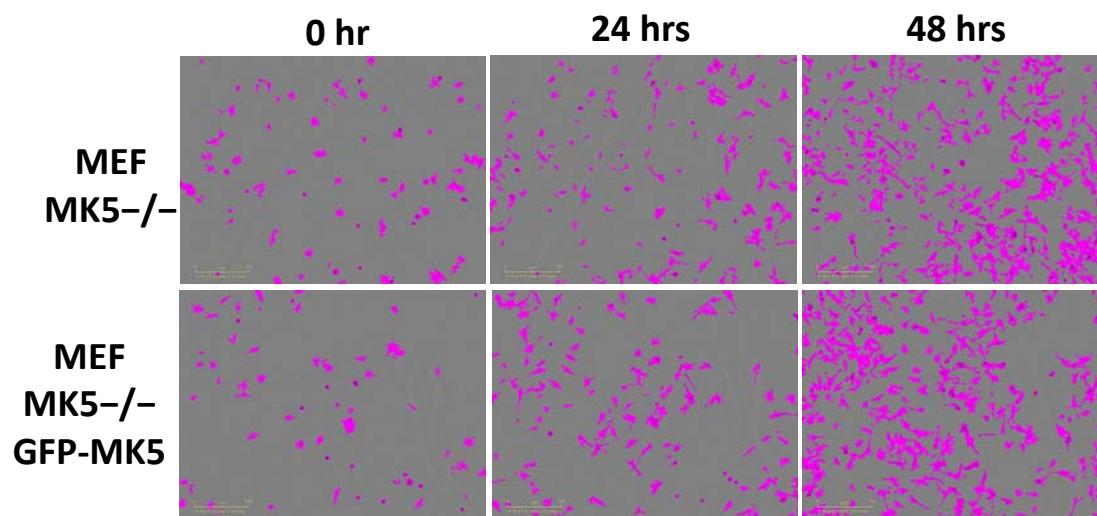
A



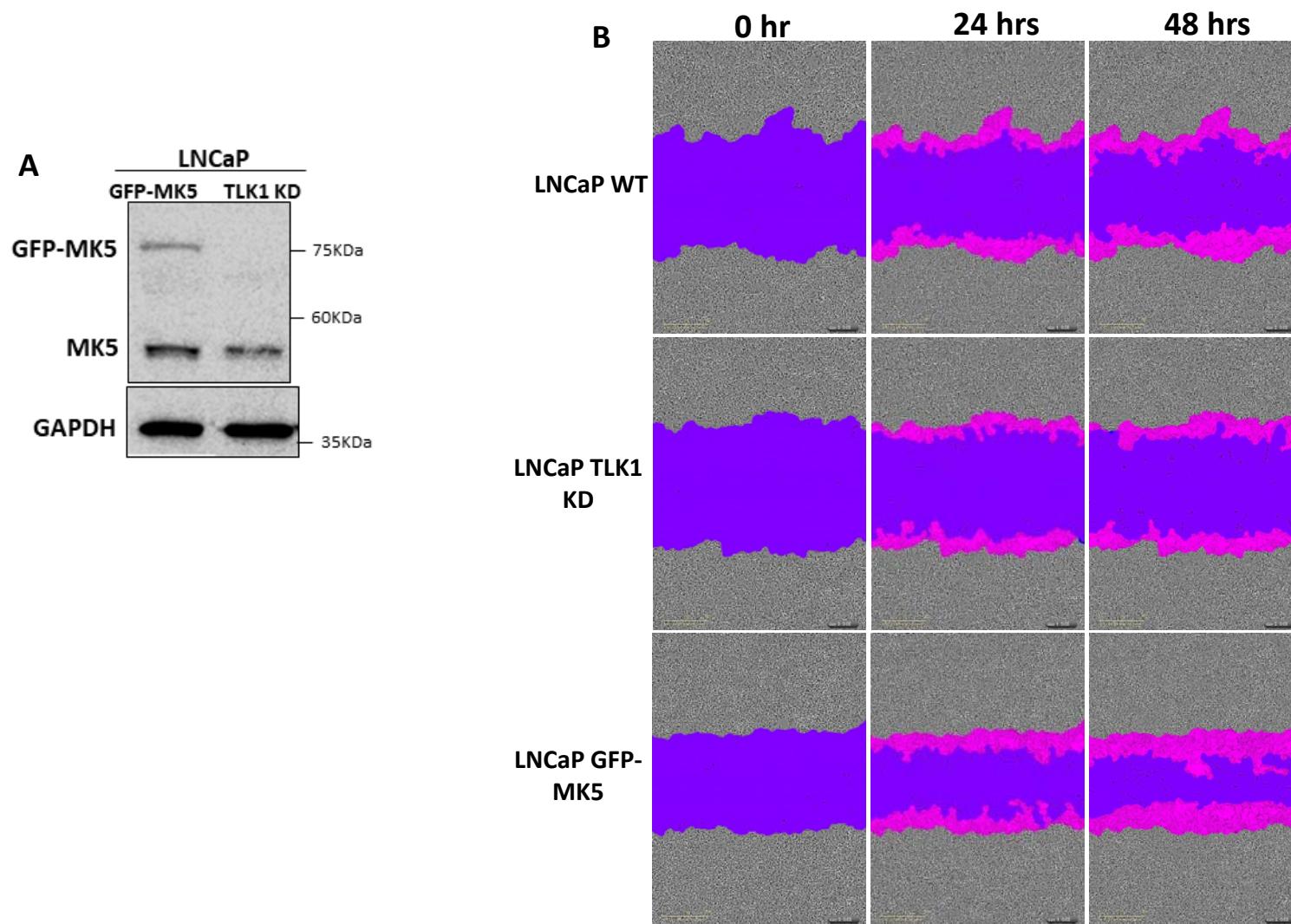
B



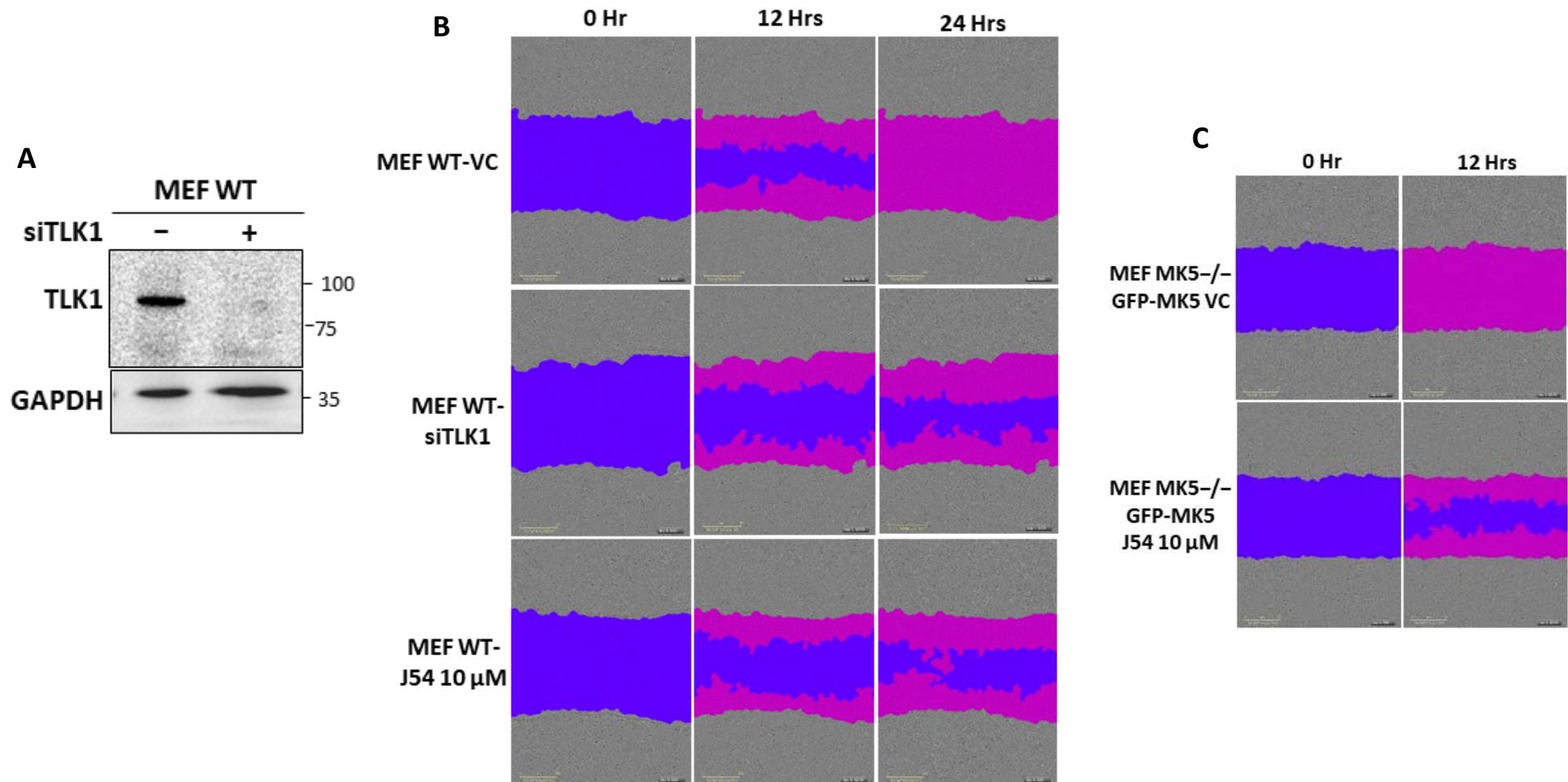
Supplementary Figure: S6



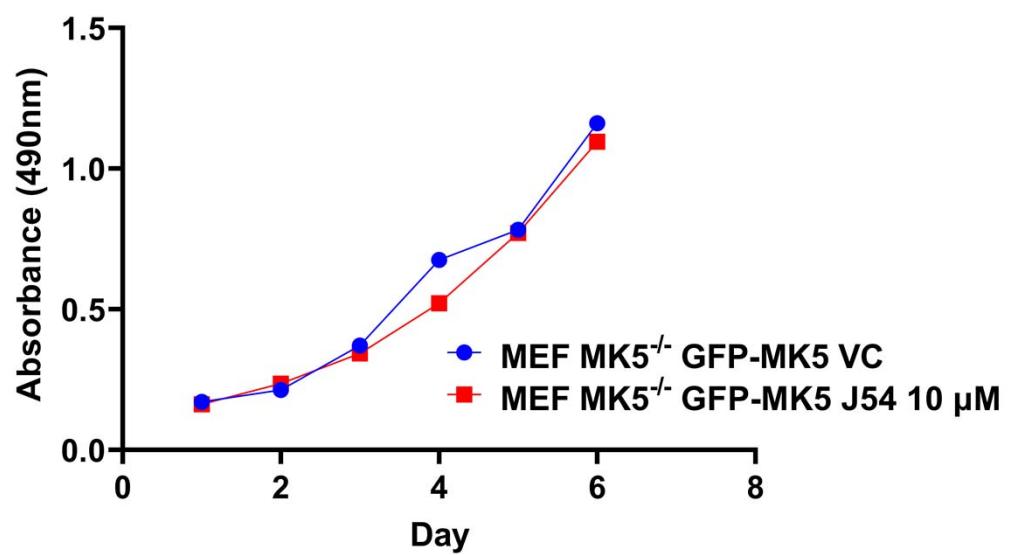
Supplementary Figure: S7



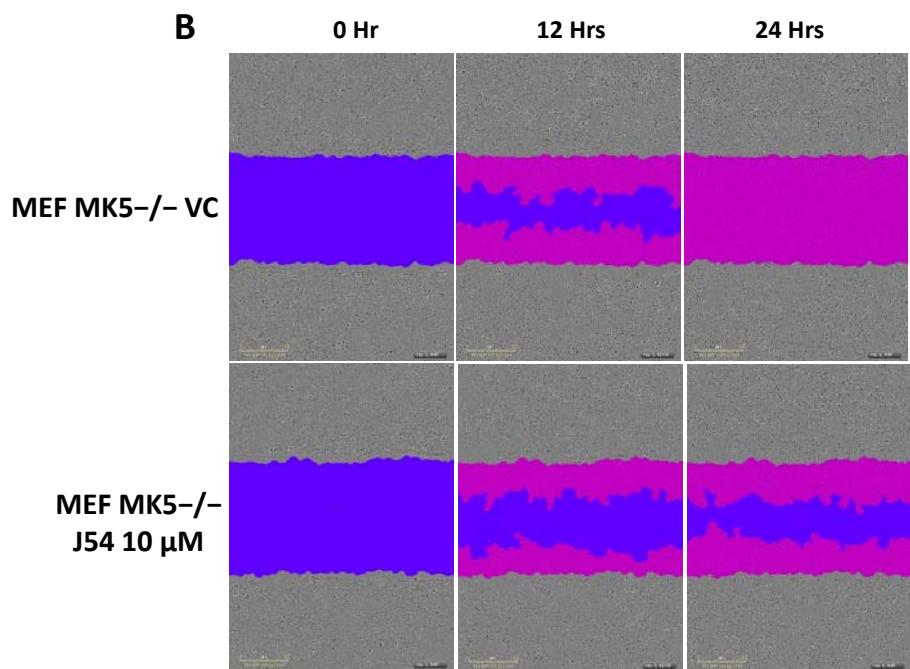
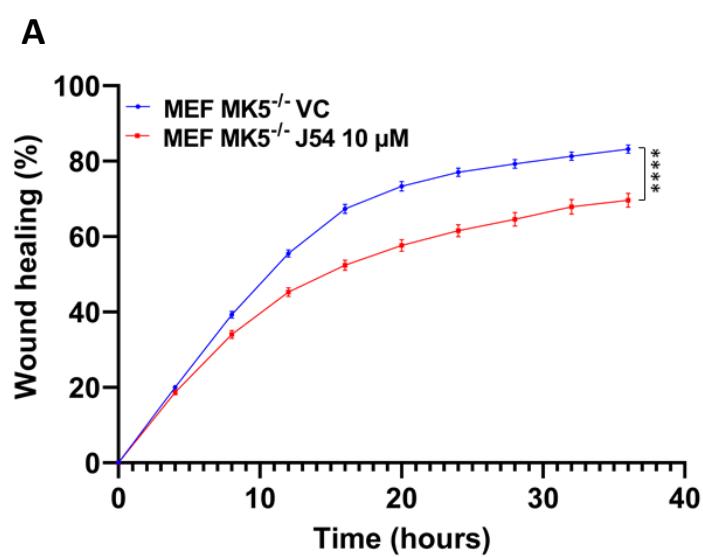
Supplementary Figure: S8



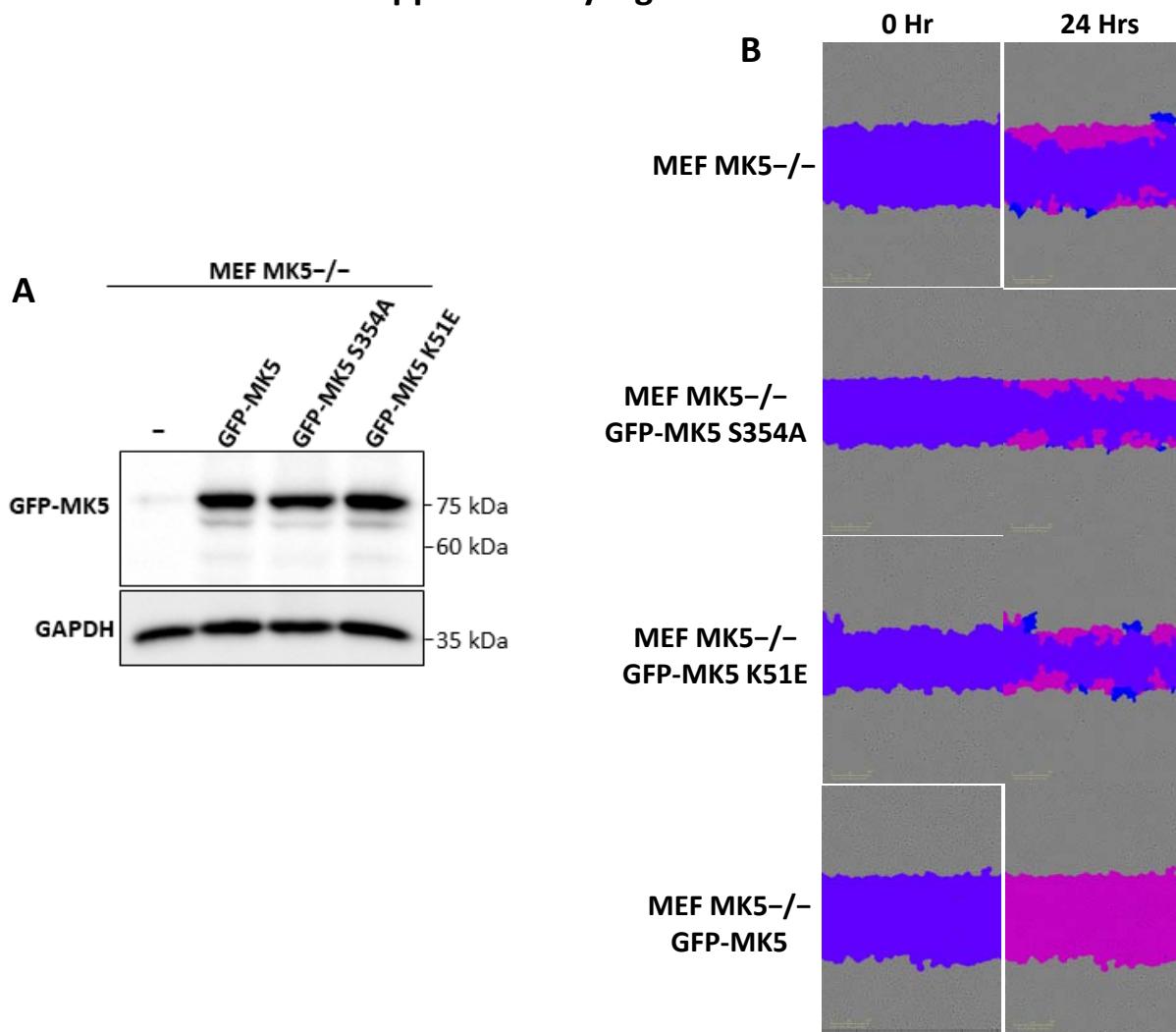
Supplementary Figure: S9



Supplementary Figure: S10

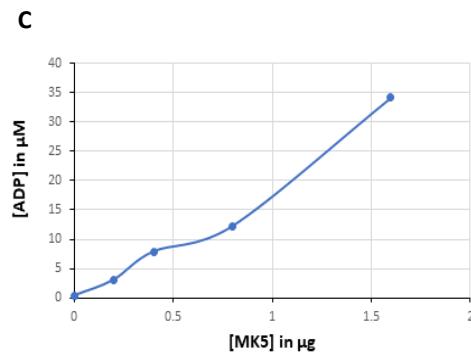
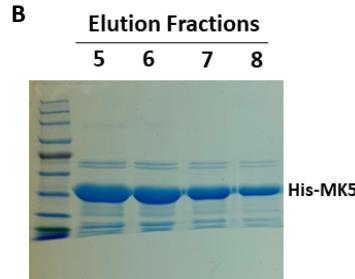
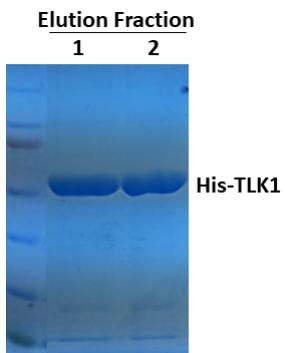


Supplementary Figure: S11

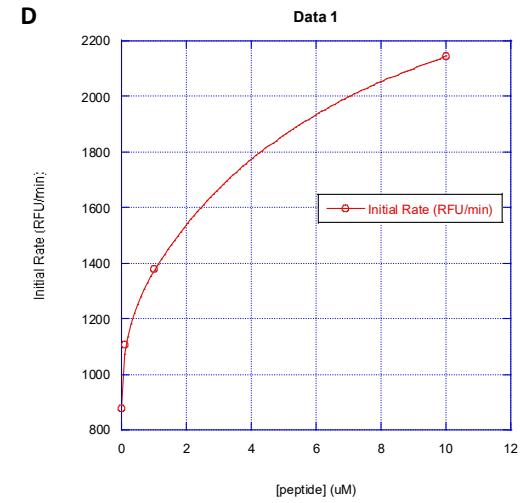


Supplementary Figure: S12

A

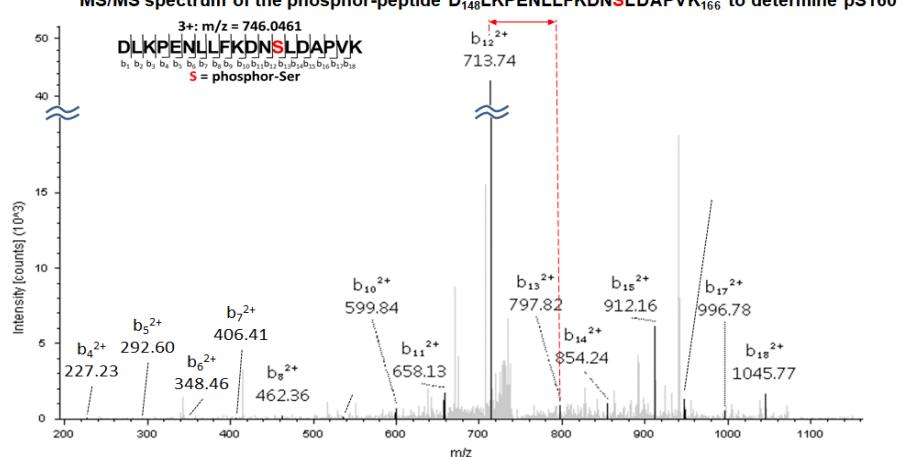


D

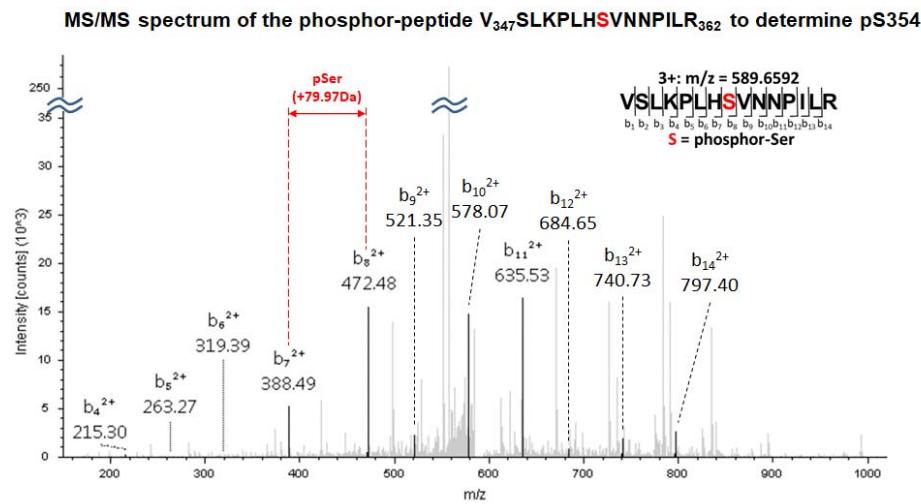


Supplementary Figure: S13

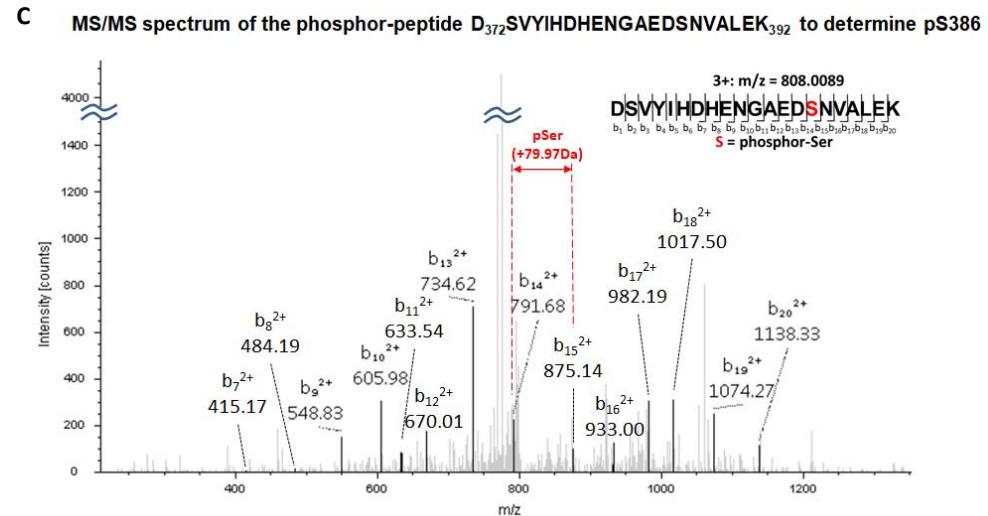
A



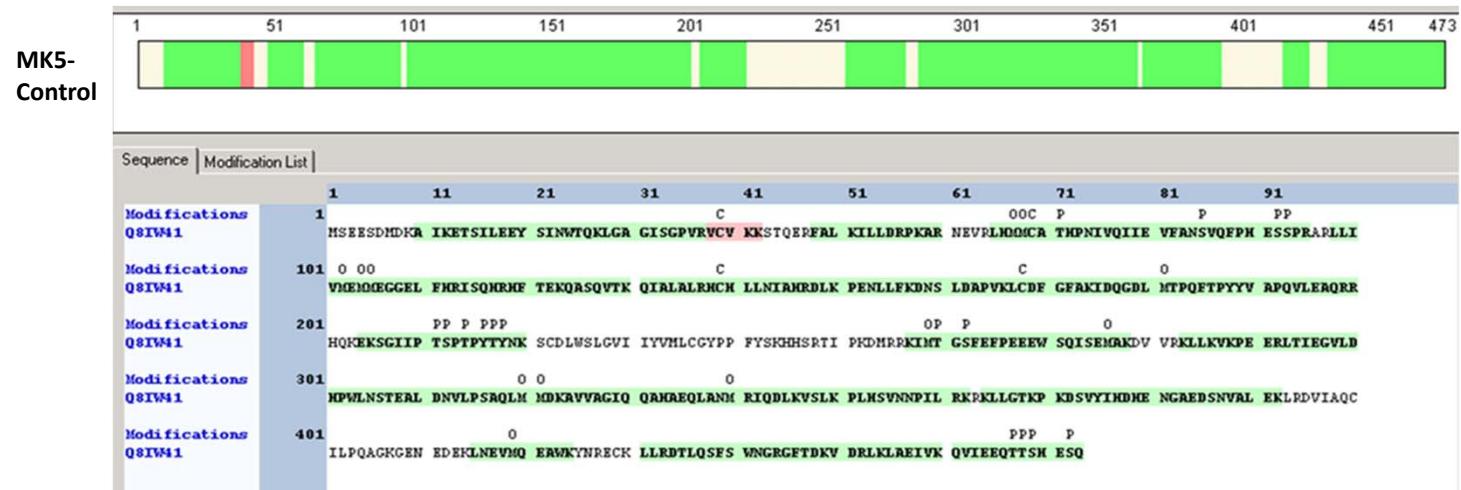
B



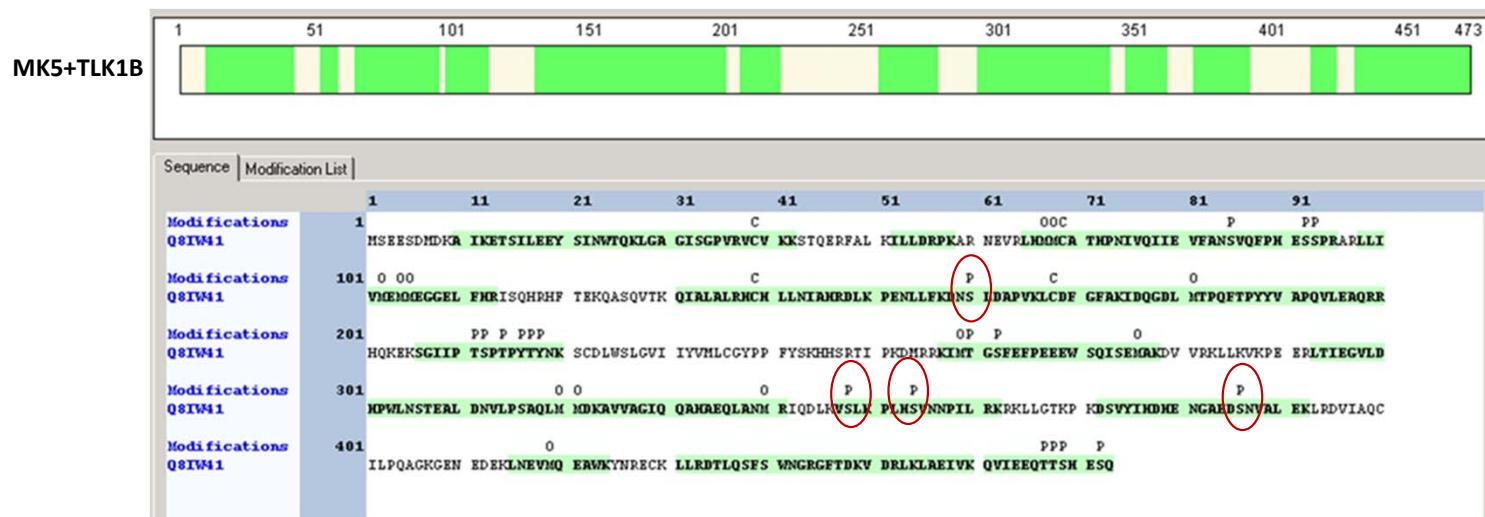
C



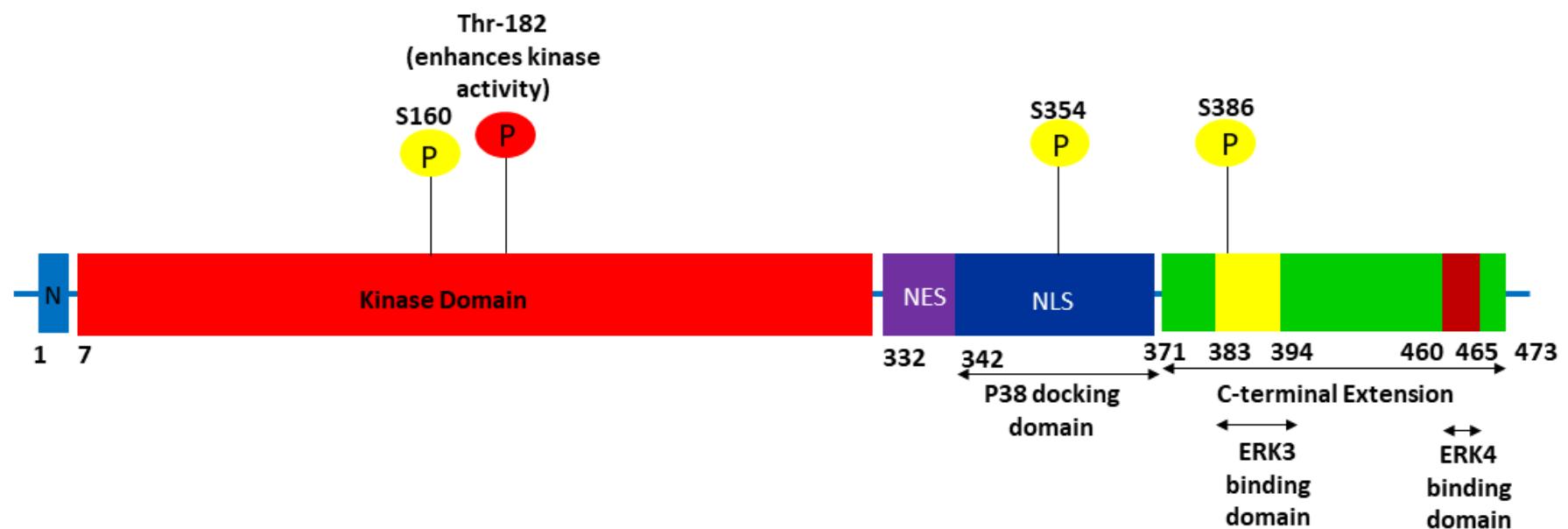
Supplementary Figure: S14



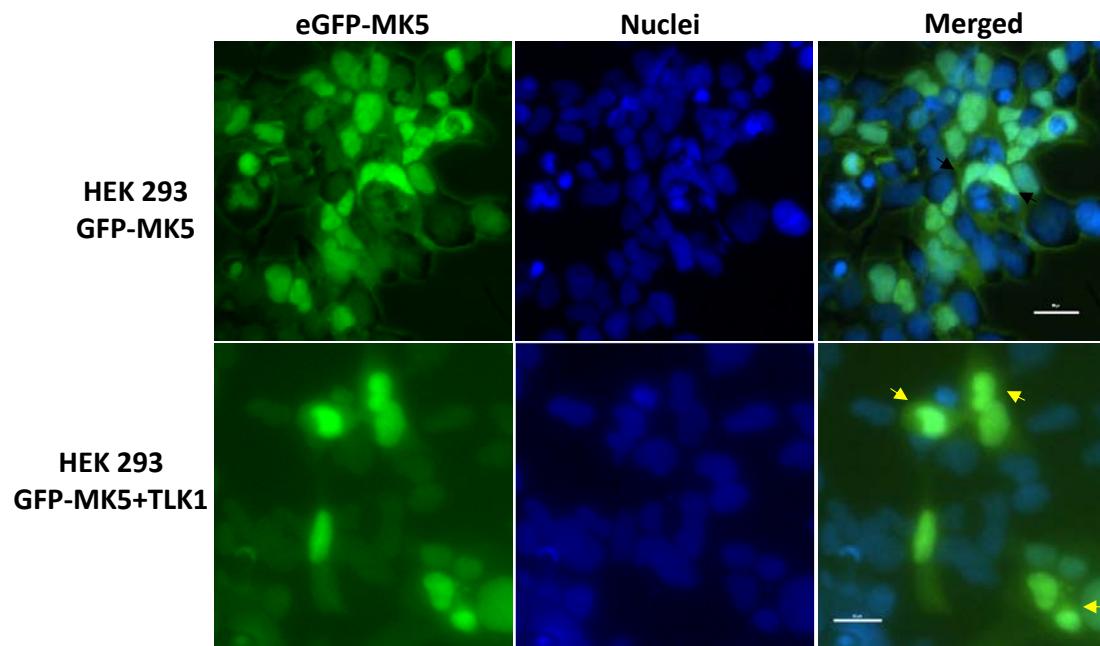
New phosphorylated sites detected in MK5-plus sample are marked with red circles.



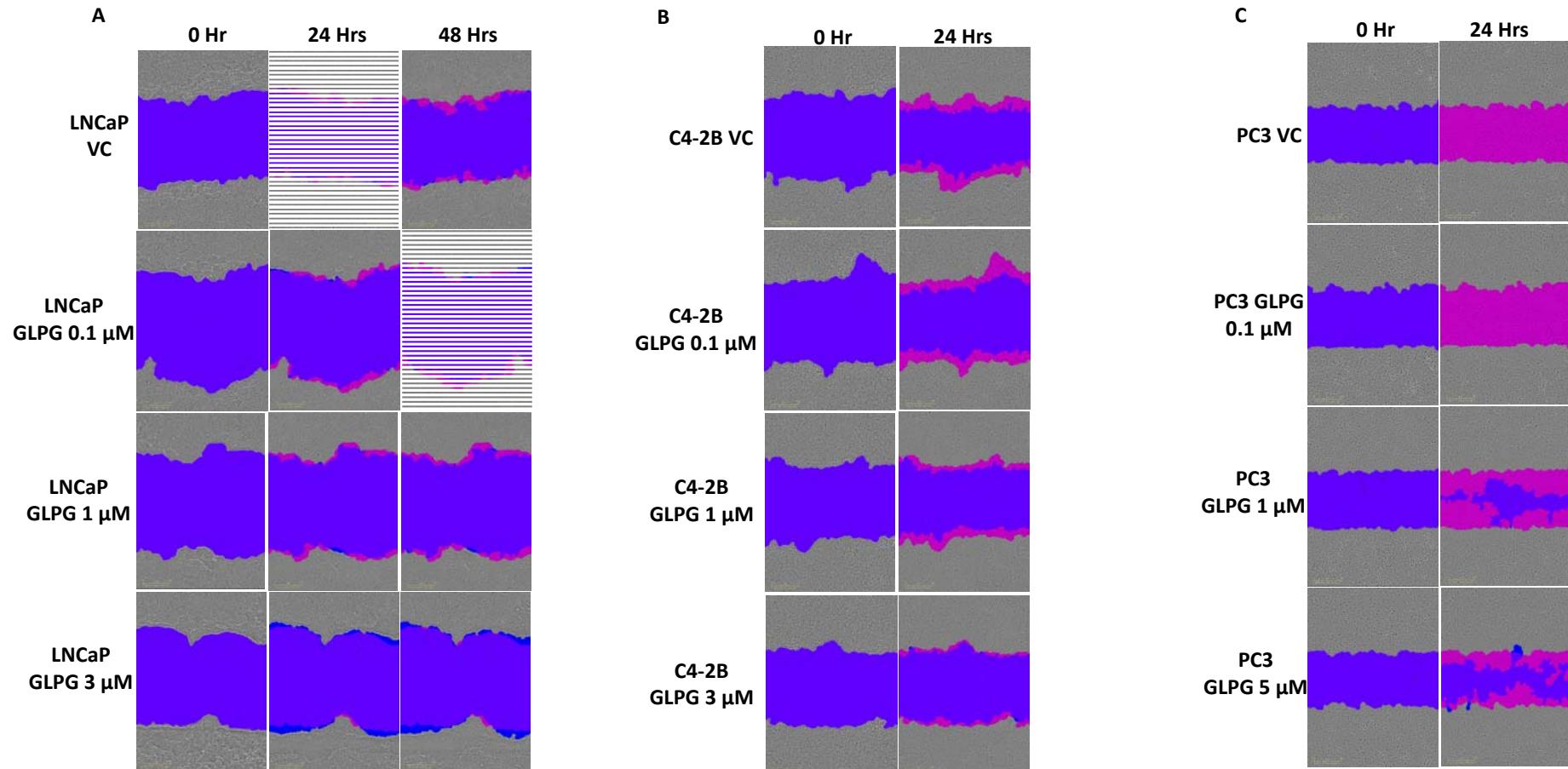
Supplementary Figure: S15



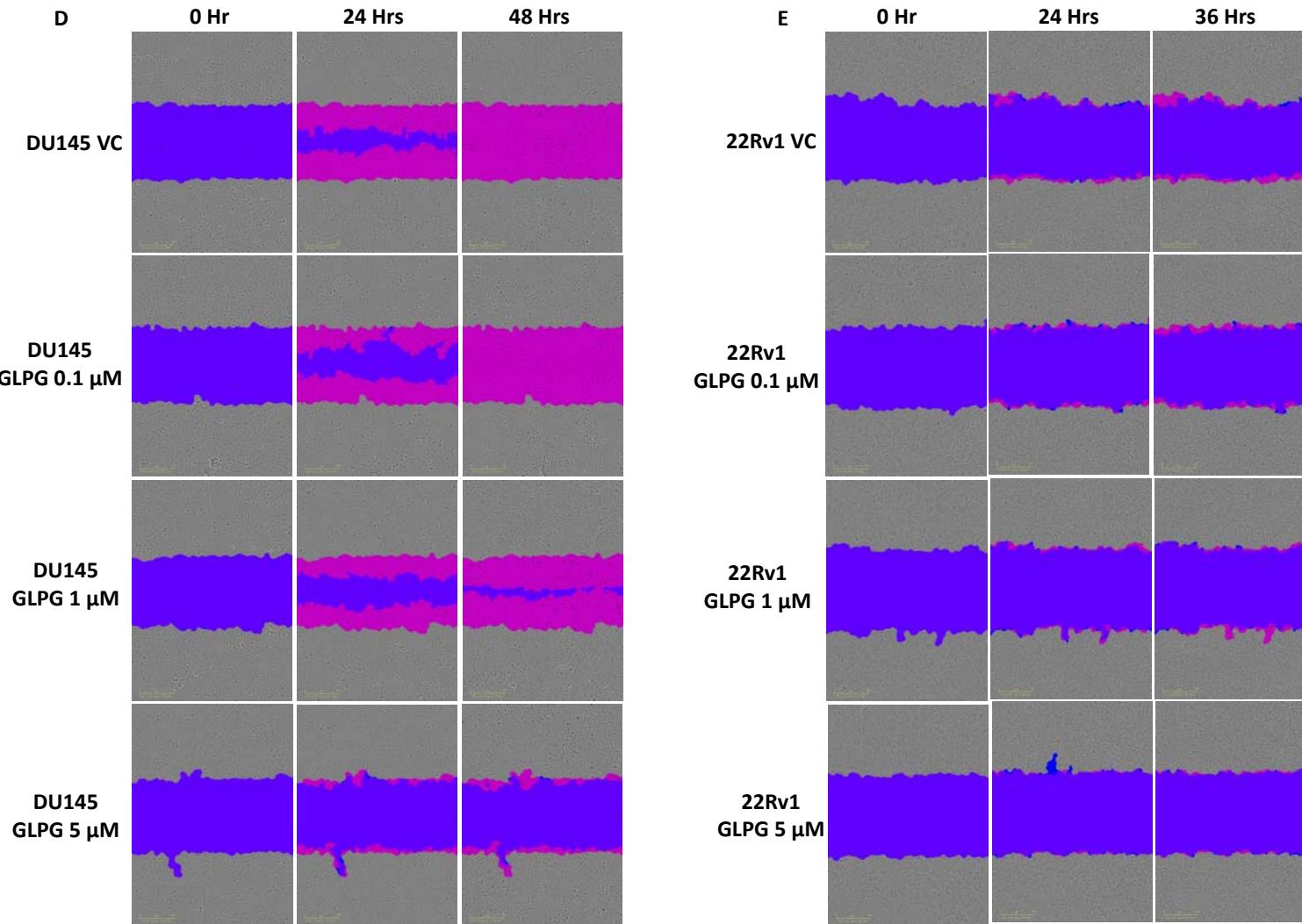
Supplementary Figure: S16



Supplementary Figure: S17



Supplementary Figure: S17 (continued)



Supplementary Figure: S18

