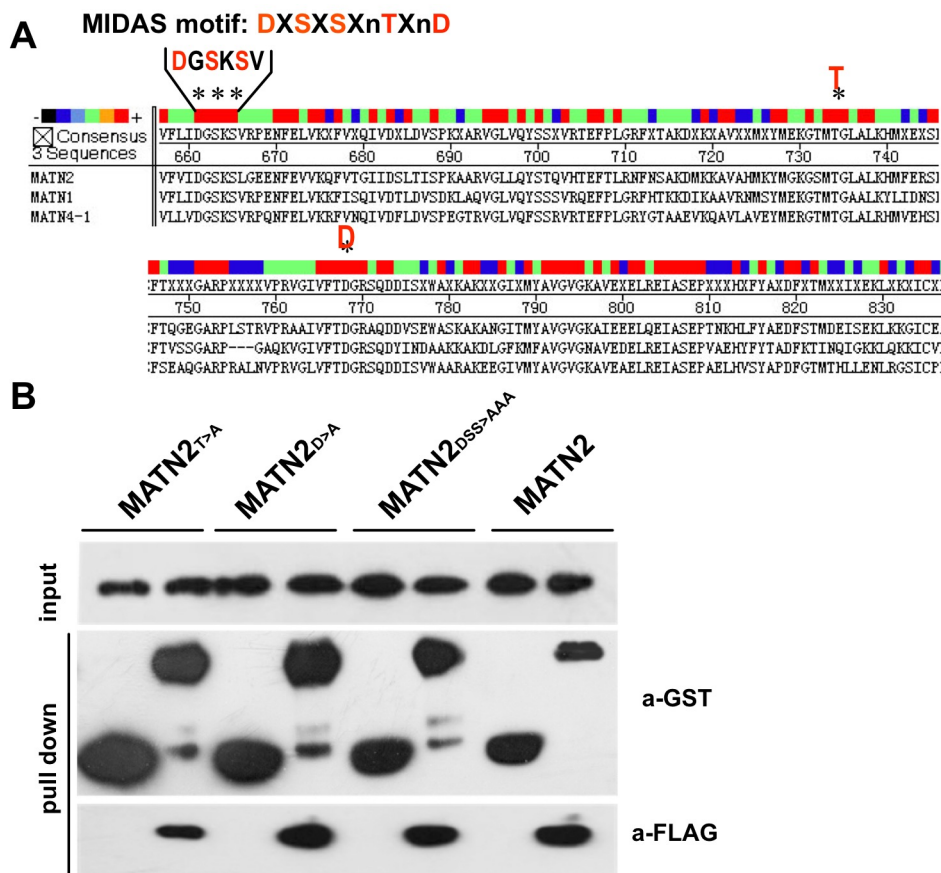


Supplementary Information

Supplementary Figure 1. Analysis of binding between YopK and MATN2 truncants with mutations in the MIDAS motif. GST pull-down assay results showed that none of these mutations influenced the binding of MTAN2 to YopK.

Supplementary Table 1. Primers used in this study.



Supplementary Figure 1

Supplementary Table 1 . Primers used in this study.

Primers	Sequence (5'-3')	Usages
YopK-KF	ATGTTTATTAAAGATACTTATAACATGCGTGCTTTATGTAGTGTAGGCTGGAGCTGCTT	Gene knockout
YopK-KR	TCATCCCATAATACATTCTTGATCGCAGGATTCGCGACTCCATATGAATATCCTCCTTA	Gene knockout
YopK-CF	gatcgatcCTGGCAATGAACGATAGAGC	Complement plasmid construction
YopK-CR	gatcggatccTCAGGAGGCAATAGATACGG	Complement plasmid construction
YopK-Exp-F	gatcggatccATGTTTATTAAAGATACTTATAACATGCG	Consturction of GST-YopK, expression plasmid
YopK-Exp-R	gatcgtcgacTCATCCCATAATACATTCTTGATC	Consturction of GST-YopK, GST-YopK ₉₁₋₁₈₂ and YopK _{A91-124} expression plasmid
MATN2-F1	ATGTGCGGCCGCAGGCTGTGAACACATTTGTGTGAACAGTG	Consturction of pFLAG-MATN2 ₅₇₄₋₉₀₃ expression plasmid
MATN2-R1	CGACGGTACCCCTGGCCCCTTCTCCTTGGGTAAAACCTT	Consturction of pFLAG-MATN2 ₅₇₄₋₉₀₃ expression plasmid
MATN2-F2	ATGTGCGGCCGCACCCCTTCCACAAGGGTGCCAGAGCAG	Consturction of pFLAG-MATN2 ₉₀₄₋₉₅₆ expression plasmid
MATN2-R2	CGACGGTACCTCATCTGTATCTCAGGCGATTTCCAGG	Consturction of pFLAG-MATN2 ₉₀₄₋₉₅₆ expression plasmid
MATN2-F3	ATGTGCGGCCGCAGGAAGACGGTGCAAGAAAT	Consturction of pFLAG-MATN2 ₆₄₂₋₈₉₂ expression plasmid
MATN2-R3	CGACGGTACCTCTGTATCTCAGGCGATTTCCAGG	Consturction of pFLAG-MATN2 ₆₄₂₋₈₉₂ expression plasmid
MATN2-Mut-1-F	GACCTGGTCTTTGTGATCGCTGGATCCAAGAGTCTTGGAG	Consturction of pFLAG-MATN2 _{D>A} expression plasmid
MATN2-Mut-1-R	CTCCAAGACTCTTGGATCCAGCGATCACAAAGACCAGGTC	Consturction of pFLAG-MATN2 _{D>A} expression plasmid
MATN2-Mut-2-F	GGTCTTTGTGATCGATGGAGCCAAGAGTCTTGGAGAAGAG	Consturction of pFLAG-MATN2 _{D>A} expression plasmid
MATN2-Mut-2-R	CTCTTCTCCAAGACTCTTGGCTCCATCGATCACAAAGACC	Consturction of pFLAG-MATN2 _{D>A} expression plasmid
MATN2-Mut-3-F	GTGATCGATGGATCCAAGGCTCTTGGAGAAGAGAATTTTGAG	Consturction of pFLAG-MATN2 _{T>A} expression plasmid

MATN2-Mut-3-R	CTCAAAATTCTCTTCTCCAAGAGCCTTGGATCCATCGATCAC	Consturction of pFLAG-MATN2 _{T>A} expression plasmid
MATN2-Mut-4-F	GGGAAAGGGCTCTATGGCTGGGCTGGCCCTGAAACAC	Consturction of pFLAG-MATN2 _{T>A} expression plasmid
MATN2-Mut-4-R	GTGTTTCAGGGCCAGCCCAGCCATAGAGCCCTTTCCC	Consturction of pFLAG-MATN2 _{T>A} expression plasmid
MATN2-Mut-5-F	GCCATTGTGTTACCGCCGGACGGGCTCAGGATGACG	Consturction of pFLAG-MATN2 _{DSS>AAA} expression plasmid
MATN2-Mut-5-R	CGTCATCCTGAGCCCGTCCGGCGGTGAACACAATGGC	Consturction of pFLAG-MATN2 _{DSS>AAA} expression plasmid
MATN2-Mut-6-F	GACCTGGTCTTTGTGATCGCTGGAGCCAAGGCTCTTGGAGAAGAG	Consturction of pFLAG-MATN2 _{DSS>AAA} expression plasmid
MATN2-Mut-6-R	CTCTTCTCCAAGAGCCTTGGCTCCAGCGATCACAAAGACCAGGTC	Consturction of pFLAG-MATN2 _{DSS>AAA} expression plasmid
TEM-pBBR-F	CATGTCTAGATCTAGAATGGATCGGAGTAGGGATCGC	Construction of pBBR1-TEM
TEM-pBBR-R	TCAGGAGCTCGAGCTCTTACCAATGCTTAATCAGTGAGGCAC	Construction of pBBR1-TEM
YopE-pBBR-F	TCATGGTACCTGCCCGACAGGATGCTCTG	Clone YopE to pBBR1-TEM
YopE-pBBR-R	CATGTCTAGACATCAATGACAGTAATTTCTGCATC	Clone YopE to pBBR1-TEM
YopK-pBBR-F	TCATGGTACCCTGGCAATGAACGATAGAGC	Clone YopK to pBBR1-TEM
YopK-pBBR-R	CATGTCTAGAGGAGGCAATAGATACGG	Clone YopK to pBBR1-TEM
YopK-1F	gatcggatccATGTTTATTAAGATACTTATAACATGCG	Consturction of GST-YopK ₁₋₆₀ expression plasmid
YopK-1R	gatcgtcgacTTTAAGTGGTTCAATCCCTA	Consturction of GST-YopK ₁₋₆₀ expression plasmid
YopK-2F	gatcggatccATGTTTATTAAGATACTTATAACATGCG	Consturction of GST-YopK ₁₋₁₂₄ expression plasmid
YopK-2R	gatcgtcgacACTGTCTTTTTTCCCTATGAACAC	Consturction of GST-YopK ₁₋₁₂₄ expression plasmid
YopK-3-F	gatcggatccAGTGGATCAATATTATCTACTTTAGAAGAG	Consturction of GST-YopK ₆₁₋₁₈₂ expression plasmid
YopK-3-R	gatcgtcgacTCATCCATAATACATTCTTGATCGC	Consturction of GST-YopK ₆₁₋₁₈₂ expression plasmid
YopK-4-F	gatcggatccGACACCAATTTAAGAAACTACCC	Consturction of GST-YopK ₉₁₋₁₈₂ expression plasmid
YopK-1-90-F	gatcggatccATGTTTATTAAGATACTTATAACATGCG	Amplification of 1~270 bp of <i>yopK</i>
YopK-1-90-R	gateGAATTCAATATCGCTGACATGTTGCCATTC	Amplification of 1~270 bp of <i>yopK</i>
YopK-125-182-F	gatcGAATTCgaagggaatatagaattttatgatc	Amplification of 376~549 bp of <i>yopK</i>
YopK-125-182-R	gateGTCGACTCATCCATAATACATTCTTGATCGC	Amplification of 376~549 bp of <i>yopK</i>