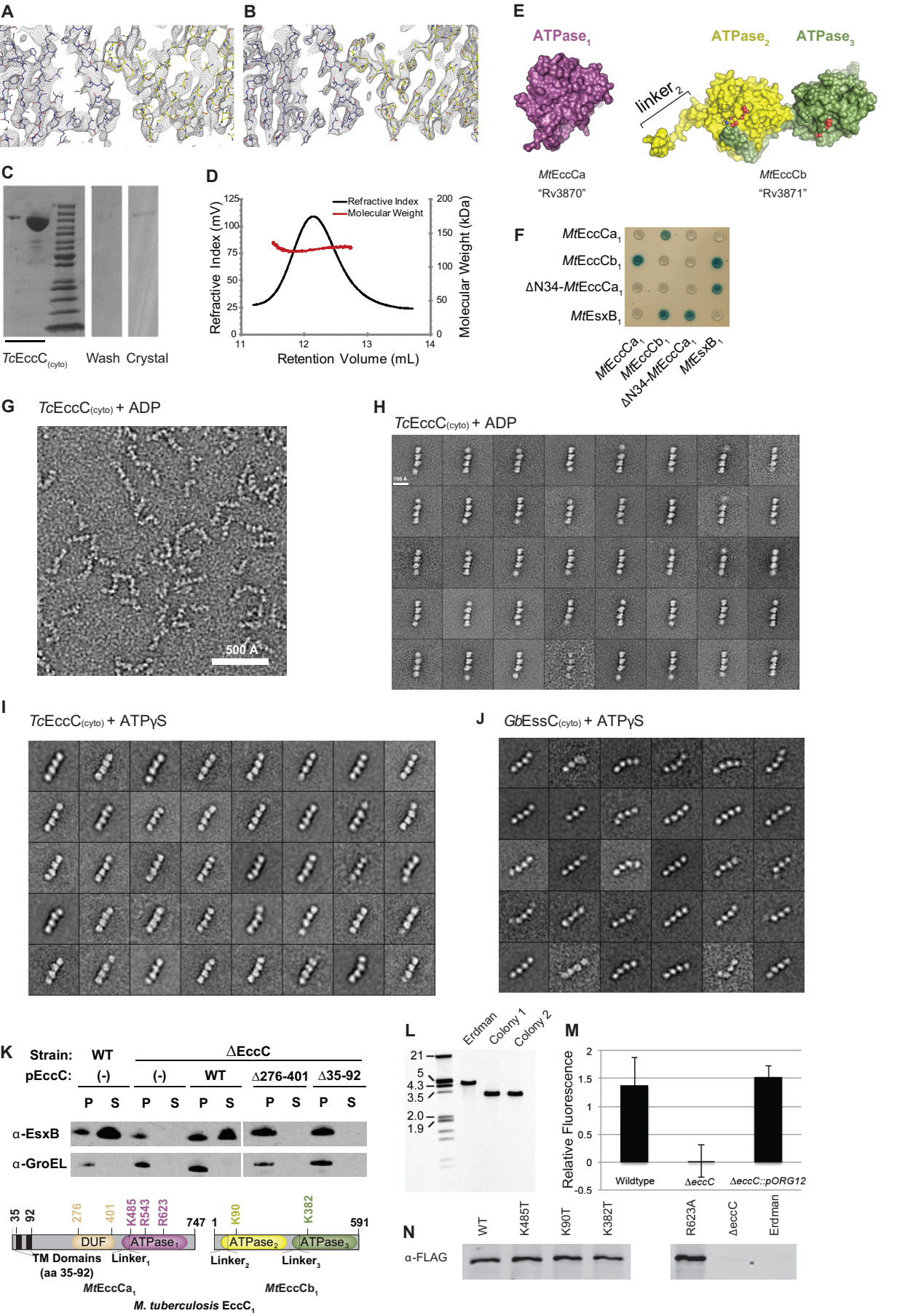
A
B
C
TcEccC(cyto)
Wash
Crystal
D
Refractive Index
Molecular Weight
Refractive Index (mV)
Molecular Weight (kDa)
Retention Volume (mL)
E
ATPase1
ATPase2
ATPase3
linker2
MtEccCa
"Rv3870"
MtEccCb
"Rv3871"
F
MtEccCa1
MtEccCb1
ΔN34-MtEccCa1
MtEsxB1
G
TcEccC(cyto) + ADP
500 Å
H
TcEccC(cyto) + ADP
100 Å
I
TcEccC(cyto) + ATPγS
J
GbEssC(cyto) + ATPγS
K
Strain:
WT
ΔEccC
pEccC:
(-)
(-)
WT
Δ276-401
Δ35-92
P S P S P S P S P S
α-EsxB
α-GroEL
35
92
276
401
K485
R543
R623
747
DUF
ATPase1
TM Domains
(aa 35-92)
Linker1
MtEccCa1
1
K90
K382
591
ATPase2
ATPase3
Linker2
Linker3
MtEccCb1
M. tuberculosis EccC1
L
Erdman
Colony 1
Colony 2
21
5
4.3
3.5
2.0
1.9
M
Relative Fluorescence
2
1.5
1
0.5
0
-0.5
Wildtype
ΔeccC
ΔeccC::pORG12
N
WT
K485T
K90T
K382T
R623A
ΔeccC
Erdman
α-FLAG