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Figure 1

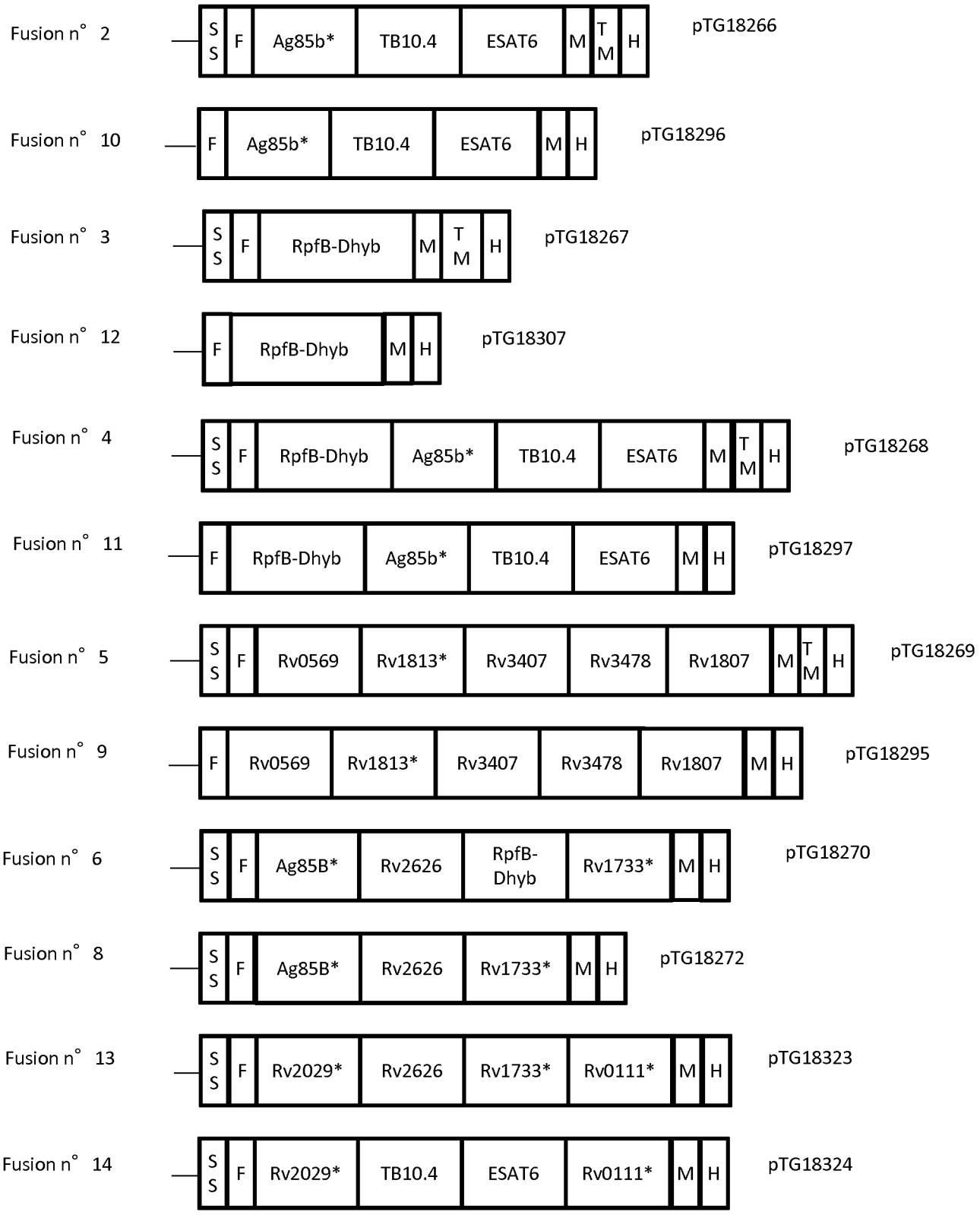
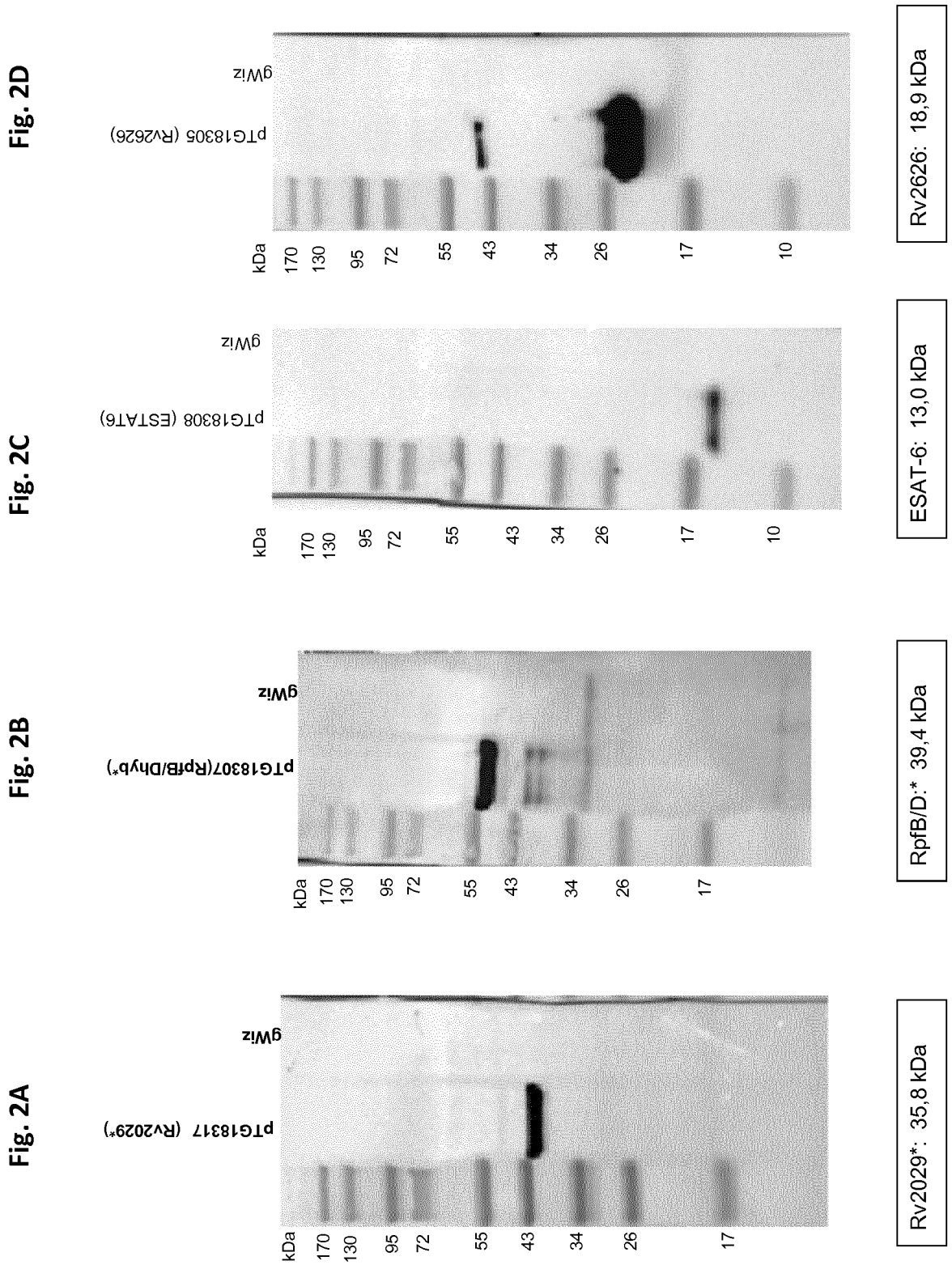
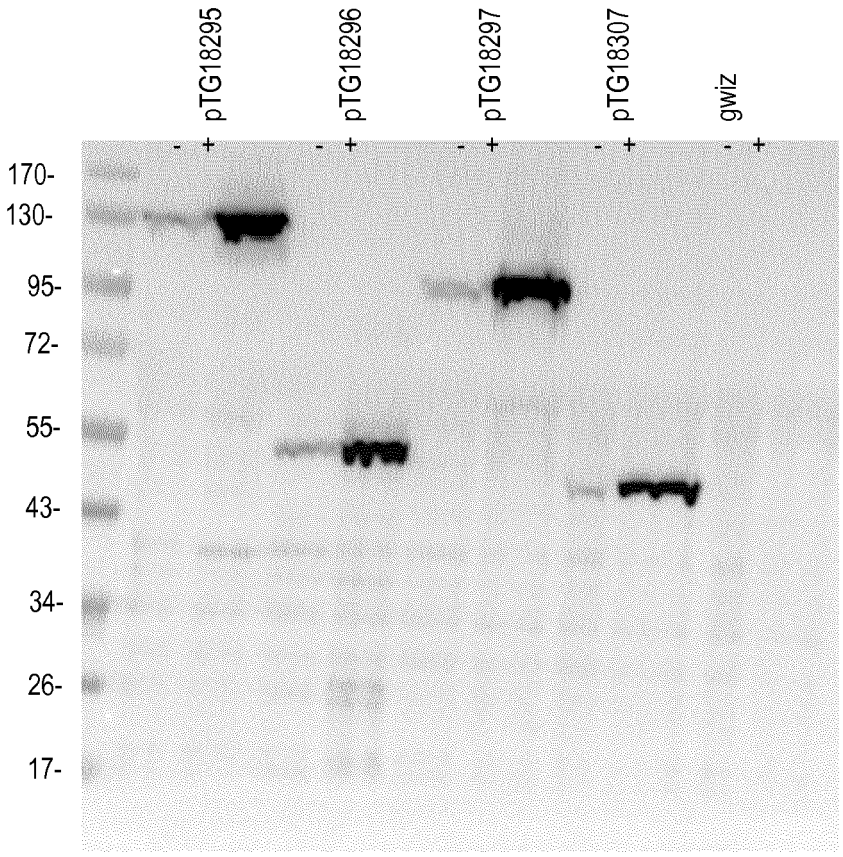

Fusion n° 2
SS
F
Ag85b*
TB10.4
ESAT6
M
TM
H
pTG18266
Fusion n° 10
F
Ag85b*
TB10.4
ESAT6
M
H
pTG18296
Fusion n° 3
SS
F
RpfB-Dhyb
M
TM
H
pTG18267
Fusion n° 12
F
RpfB-Dhyb
M
H
pTG18307
Fusion n° 4
SS
F
RpfB-Dhyb
Ag85b*
TB10.4
ESAT6
M
TM
H
pTG18268
Fusion n° 11
F
RpfB-Dhyb
Ag85b*
TB10.4
ESAT6
M
H
pTG18297
Fusion n° 5
SS
F
Rv0569
Rv1813*
Rv3407
Rv3478
Rv1807
M
TM
H
pTG18269
Fusion n° 9
F
Rv0569
Rv1813*
Rv3407
Rv3478
Rv1807
M
H
pTG18295
Fusion n° 6
SS
F
Ag85B*
Rv2626
RpfB-Dhyb
Rv1733*
M
H
pTG18270
Fusion n° 8
SS
F
Ag85B*
Rv2626
Rv1733*
M
H
pTG18272
Fusion n° 13
SS
F
Rv2029*
Rv2626
Rv1733*
Rv0111*
M
H
pTG18323
Fusion n° 14
SS
F
Rv2029*
TB10.4
ESAT6
Rv0111*
M
H
pTG18324

Figure 2


Fig. 2A
pTG18317 (Rv2029*)
gWiz
kDa
170
130
95
72
55
43
34
26
17
Rv2029*: 35,8 kDa
Fig. 2B
pTG18307(RpfB/Dhyb*)
gWiz
kDa
170
130
95
72
55
43
34
26
17
RpfB/D:* 39,4 kDa
Fig. 2C
pTG18308 (ESTAT6)
gWiz
kDa
170
130
95
72
55
43
34
26
17
10
ESAT-6: 13,0 kDa
Fig. 2D
pTG18305 (Rv2626)
gWiz
kDa
170
130
95
72
55
43
34
26
17
10
Rv2626: 18,9 kDa

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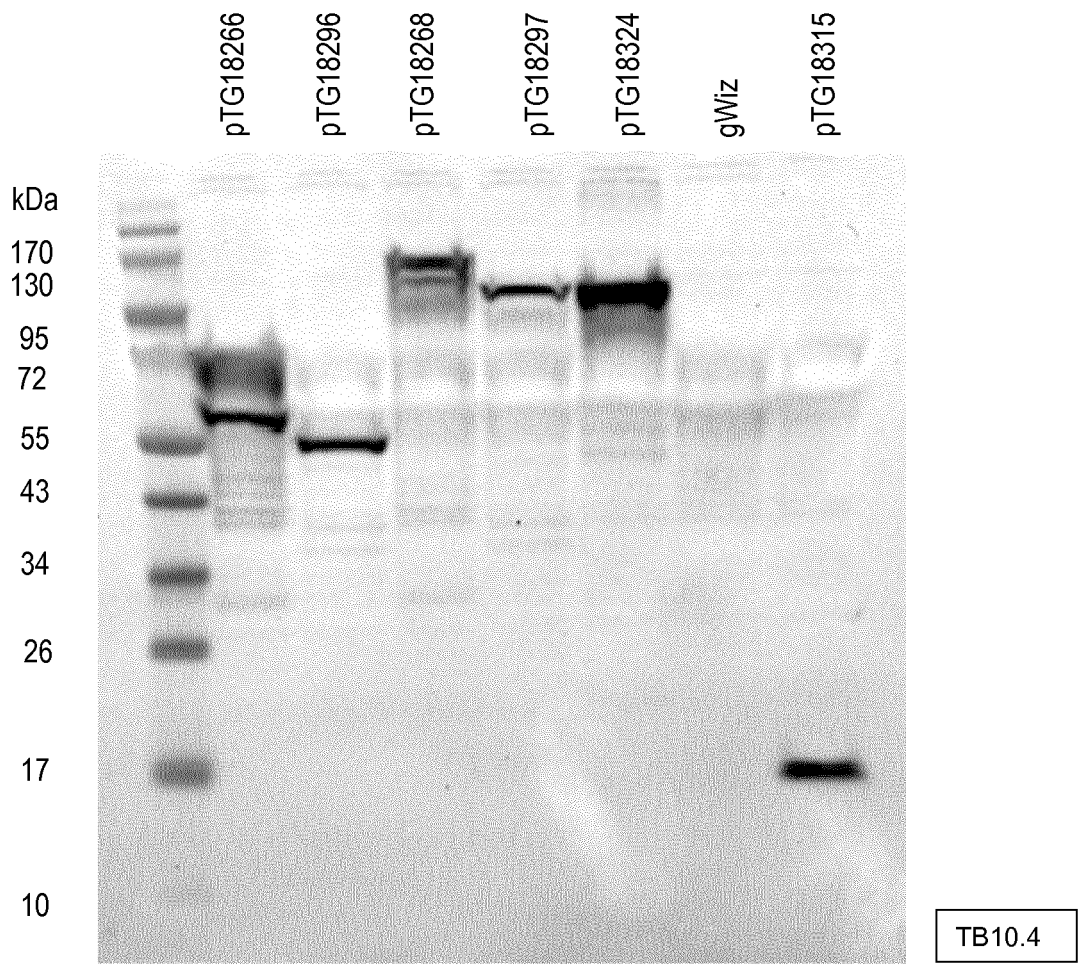
Figure 3



pTG18295: Flag-Rv0569-Rv1813-Rv3407-Rv3478-Rv1807-cMyc-His (cytoplasmic version of pTG18269): 112,9 KDa
pTG18296: Flag-Ag85B-TB10.4-ESAT6-cMyc-His (cytoplasmic version of pTG18266): 53,8 Kda
pTG18297: Flag-RpfB-Dhyb-Ag85B-TB10.4-ESAT6-cMyc-His (cytoplasmic version of pTG18268): 90 KDa
pTG18307: Flag-RpfB-Dhyb-cMyc-His (cytoplasmic version of pTG18267): 39,3 KDa

Figure 4

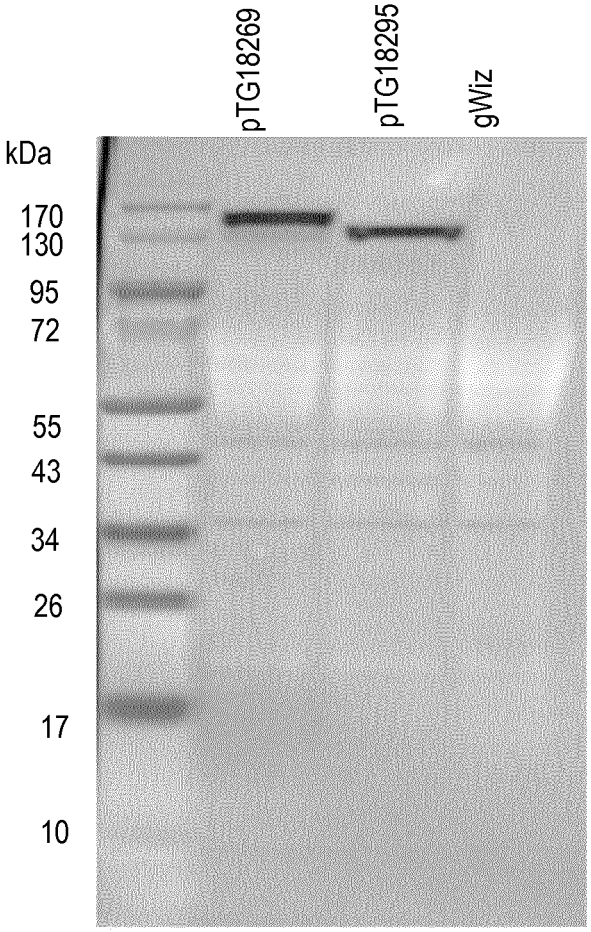
Fig. 4A



pTG18268: SR-Flag-RpfB-Dhyb-Ag85B-TB10,4-ESAT6-cMyc-TMRv1-His/ **MW: 99,7kDA**
pTG18266: SR-Flag-Ag85B-TB10,4-ESAT6-cMyc-TMR-His **MW:63,6kDa**
pTG18296: Flag-Ag85B-TB10,4-ESAT6-cMyc-His (cassette2delSR-TMR) **MW:53,8kDA**
pTG18297: Flag-RpfB-Dhyb-Ag85B-TB10,4-ESAT6-cMyc-His (cassette4 delSR-TMR) **MW: 90kDA**
pTG18324: SF-Flag- Rv2029-TB10.4-ESAT6-Rv0111del1TM-cMyc-His/ **MW:90,6 kDa**
pTG18315: TB10,4 MW:13,5kDA

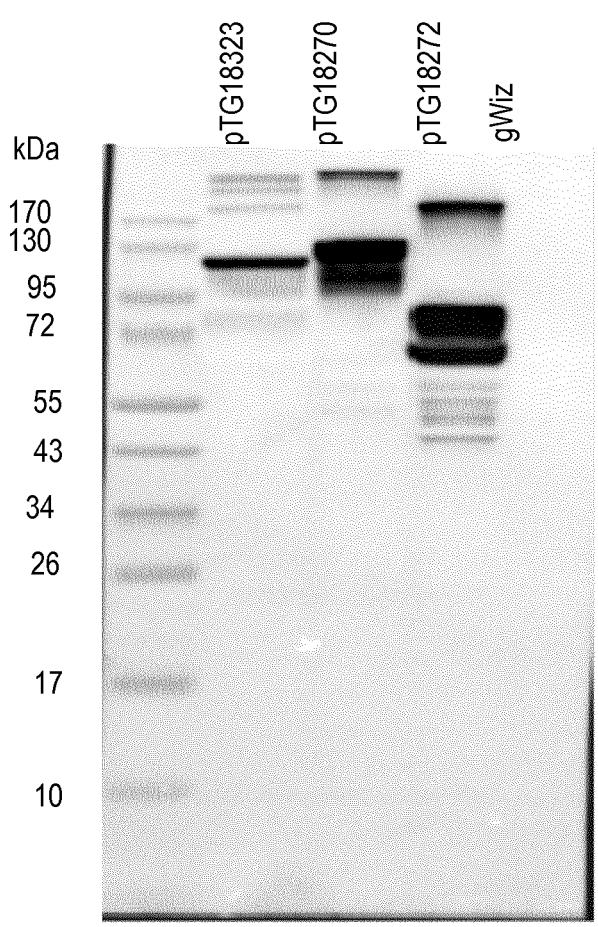
Figure 4

Fig. 4B



Rv0569

Fig. 4C



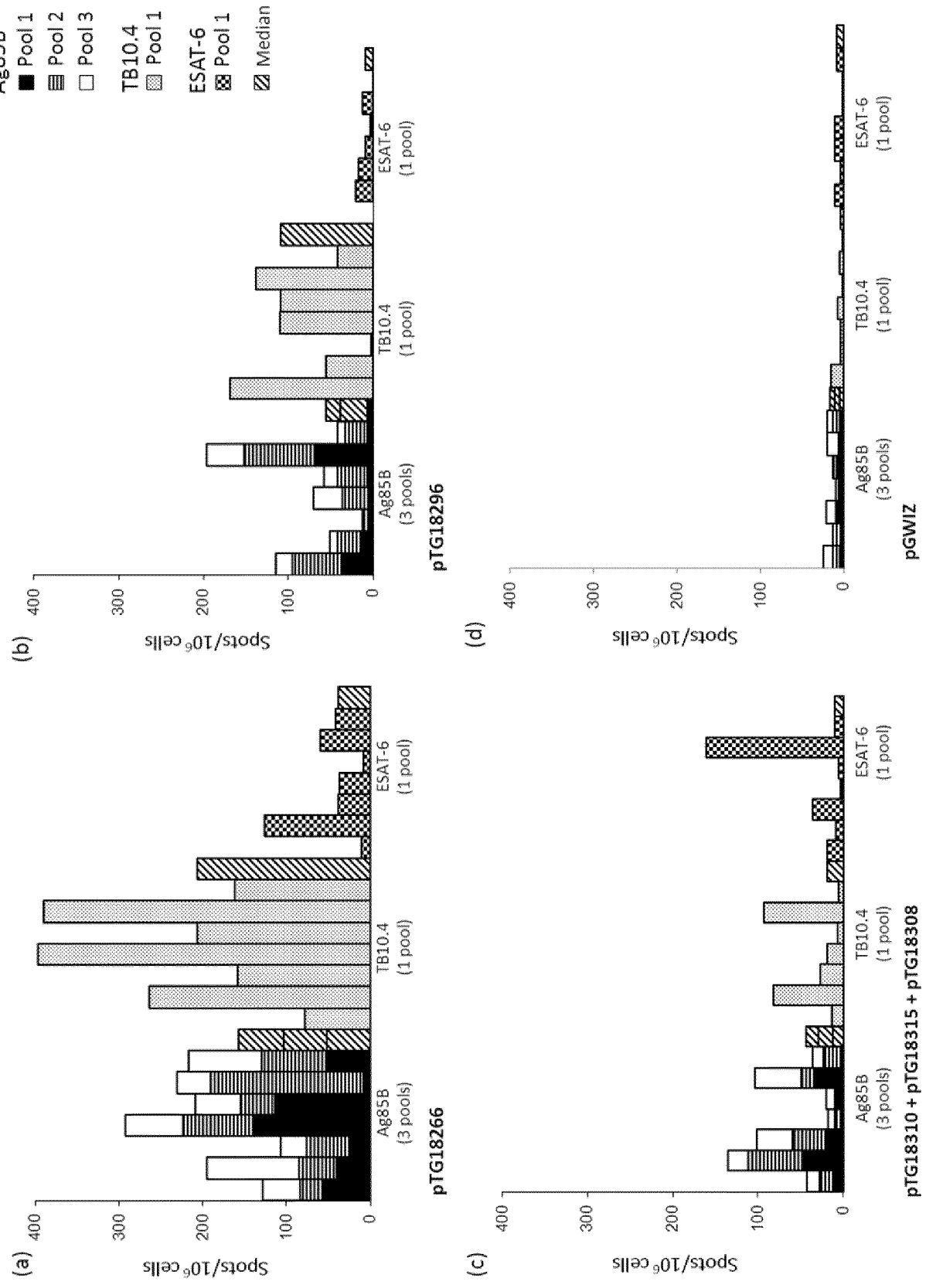
Rv2626

pTG18269: SR-Flag-Rv0569-Rv1813-Rv3407-RV3478-Rv1807-cMyc-TMRv2-His/ **MW: 122kDA**
pTG18295: Flag-Rv0569-Rv1813-RV3407-Rv3478-Rv1807-cMyc-His (cassettte5 del SR-TMR) **MW: 112,9kDA**

pTG18323: SF-Flag-Rv2029-Rv2626-Rv1733-Rv0111del1TM-cMyc-His/ **MW:101,5kDa**
pTG18270: SR-Flag-Ag85B-RV2626-RpfB-Dhyb-RV1733-cMyc-His/ **MW:103,5kDa**
pTG18272: SR-Flag-Ag85B-Rv2626-Rv1733-cMyc-His/ **MW:67,3kDa**
pTG18324: SF-Flag- Rv2029-TB10.4-ESAT6-Rv0111del1TM-cMyc-His/ **MW:90,6 kDa**

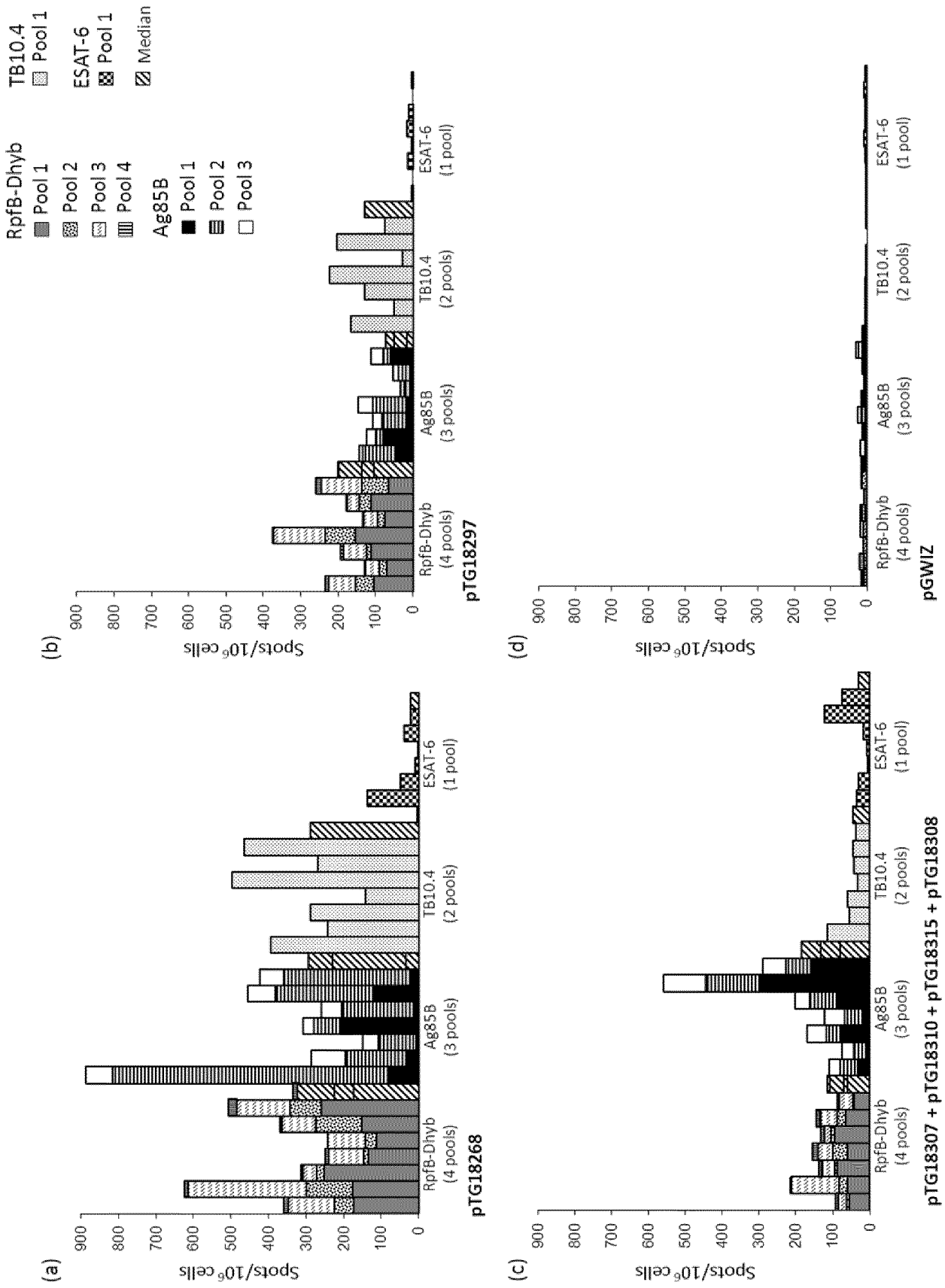
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Figure 5


Ag85B
Pool 1
Pool 2
Pool 3
TB10.4
Pool 1
ESAT-6
Pool 1
Median
(a)
(b)
(c)
(d)
Spots/10^6 cells
0
100
200
300
400
Ag85B (3 pools)
TB10.4 (1 pool)
ESAT-6 (1 pool)
pTG18266
pTG18296
pTG18310 + pTG18315 + pTG18308
pGWIZ

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Figure 6


RpfB-Dhyb
Pool 1
Pool 2
Pool 3
Pool 4
TB10.4
Pool 1
ESAT-6
Pool 1
Median
Ag85B
Pool 1
Pool 2
Pool 3
(a)
(b)
(c)
(d)
Spots/10^6 cells
RpfB-Dhyb (4 pools)
Ag85B (3 pools)
TB10.4 (2 pools)
ESAT-6 (1 pool)
pTG18268
pTG18297
pTG18307 + pTG18310 + pTG18315 + pTG18308
pGWIZ

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Figure 7

Fig. 7A

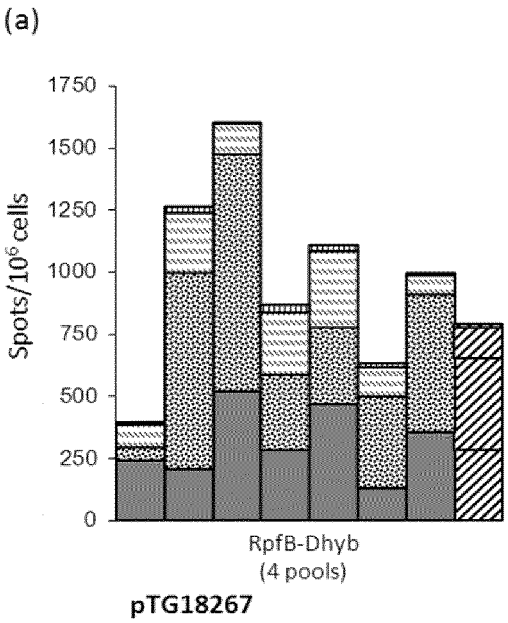


Fig. 7B

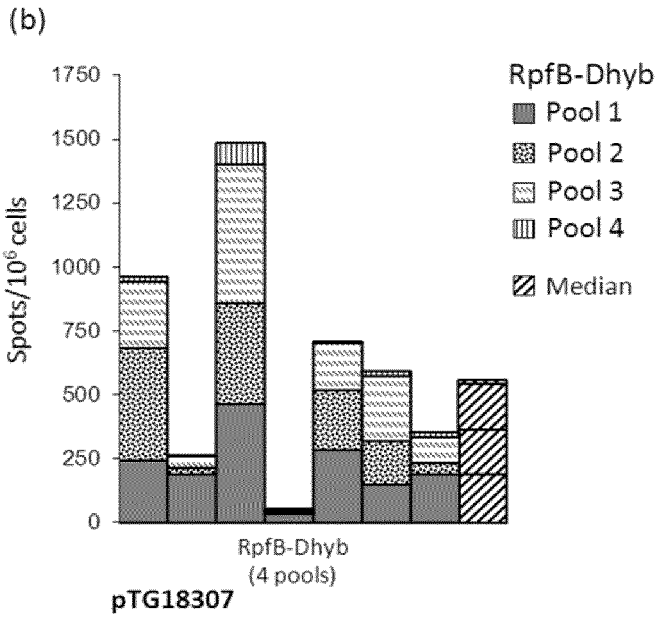
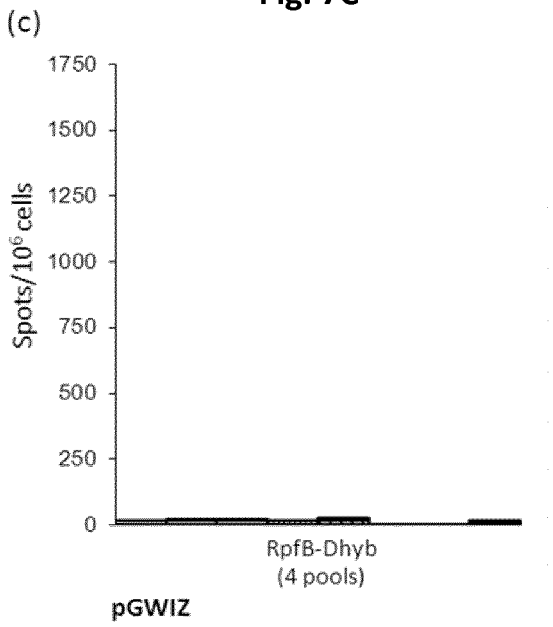


Fig. 7C



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Figure 8

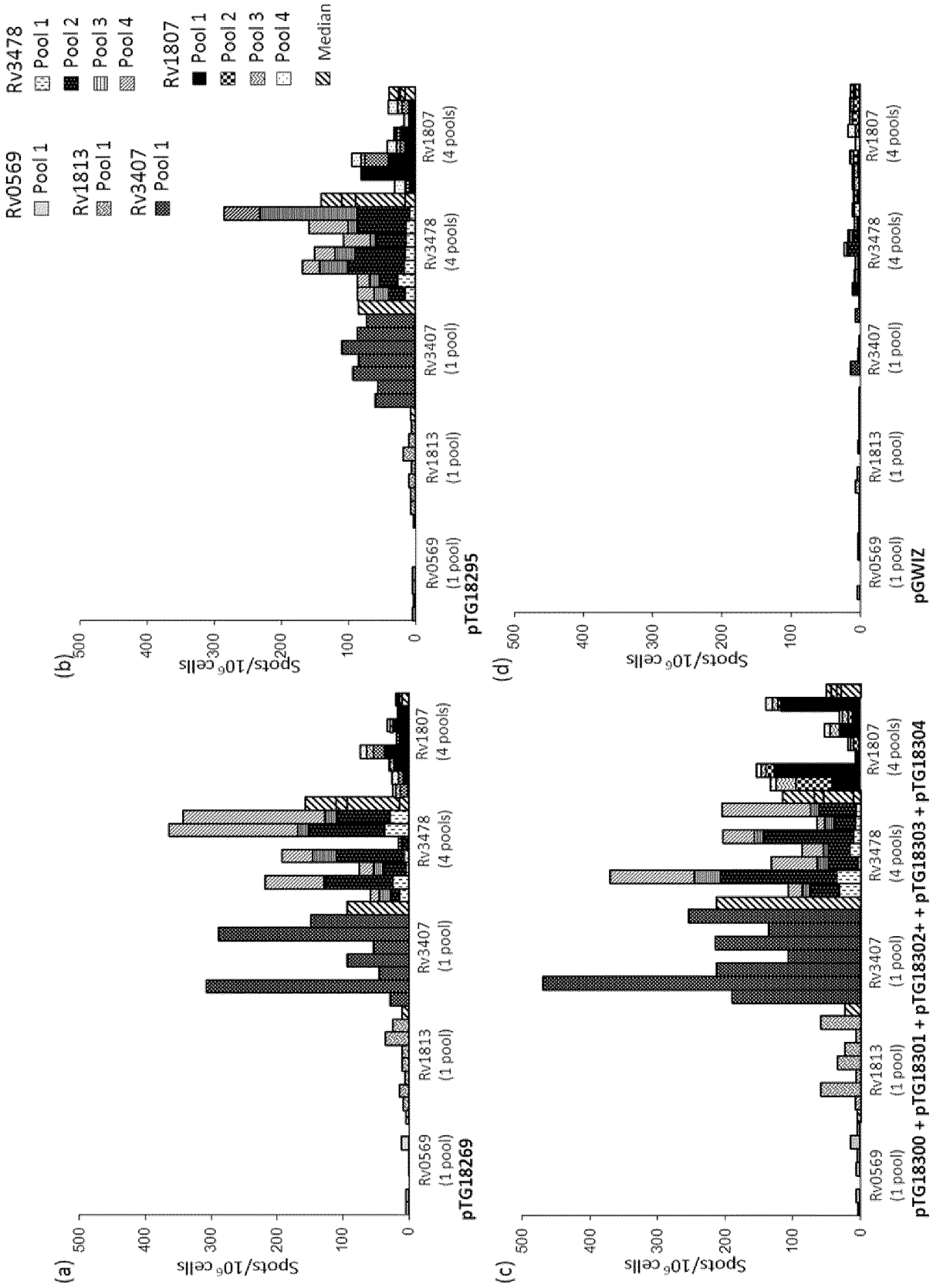

Rv0569
Pool 1
Rv1813
Pool 1
Rv3407
Pool 1
Rv3478
Pool 1
Pool 2
Pool 3
Pool 4
Rv1807
Pool 1
Pool 2
Pool 3
Pool 4
Median
(a)
(b)
(c)
(d)
Spots/10^6 cells
0
100
200
300
400
500
Rv0569 (1 pool)
Rv1813 (1 pool)
Rv3407 (1 pool)
Rv3478 (4 pools)
Rv1807 (4 pools)
pTG18269
pTG18295
pTG18300 + pTG18301 + pTG18302+ + pTG18303 + pTG18304
pGWIZ

Figure 9

Fig. 9A Rv2626

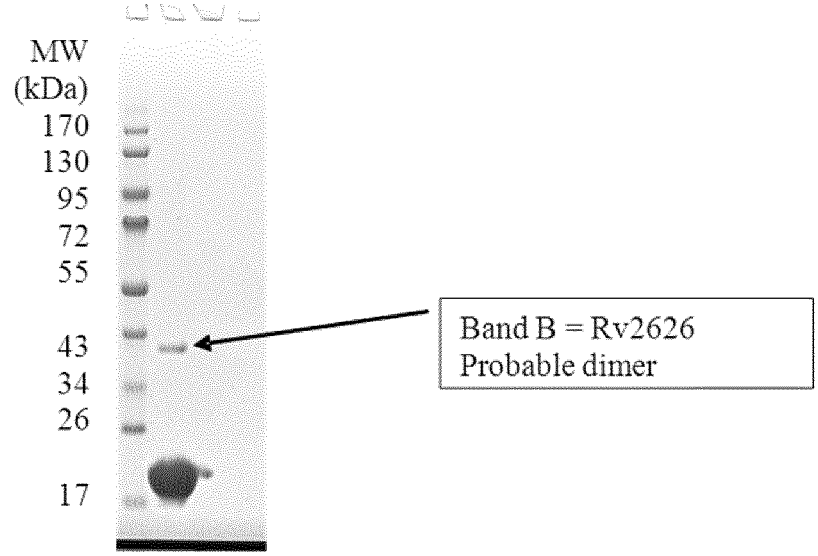
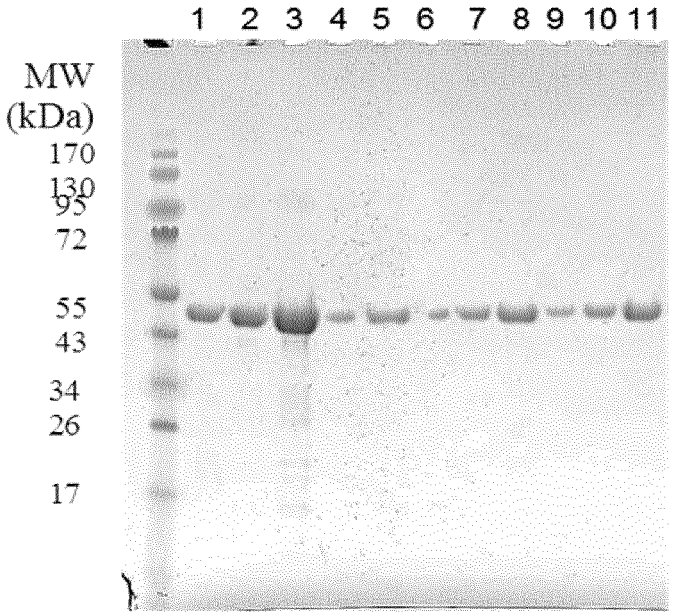
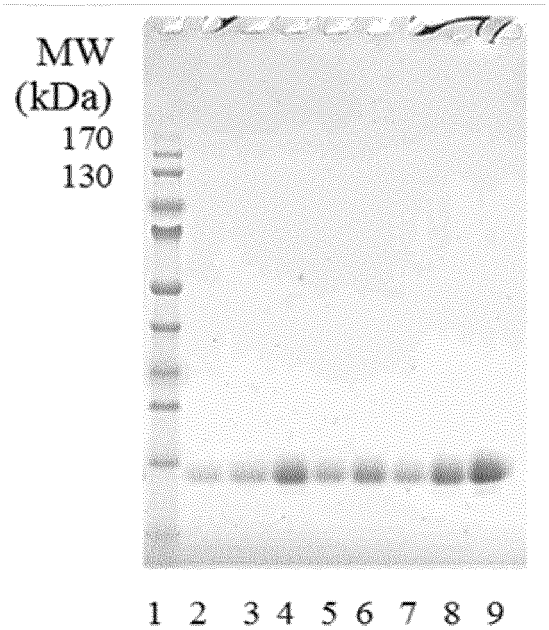


Fig. 9B RPFB-Dhyb



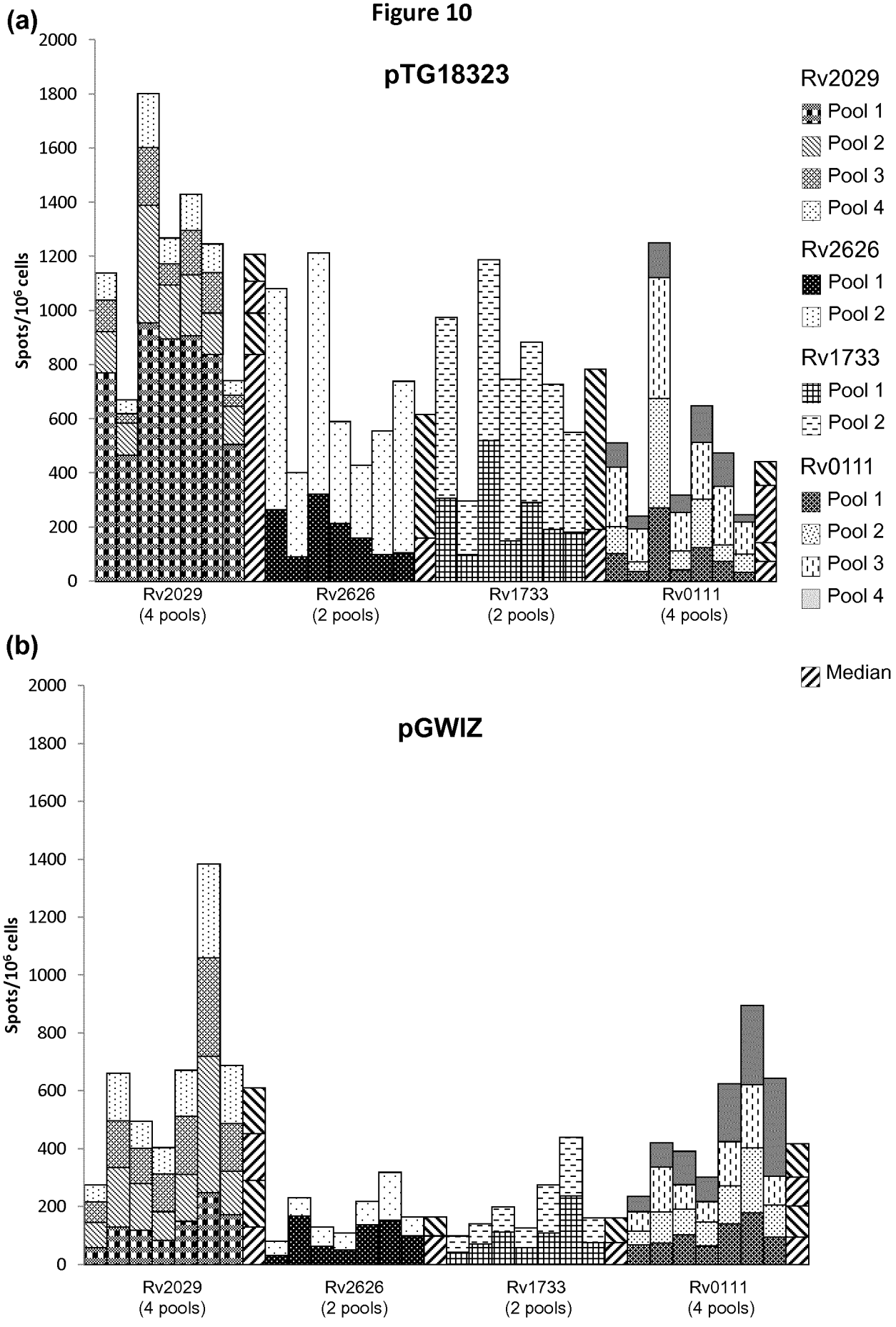
Lanes 1 to 8: intermediate fractions of purification
Lanes 9 to 11: final pool 5, 10 and 15 µL

Fig. 9C TB10.4



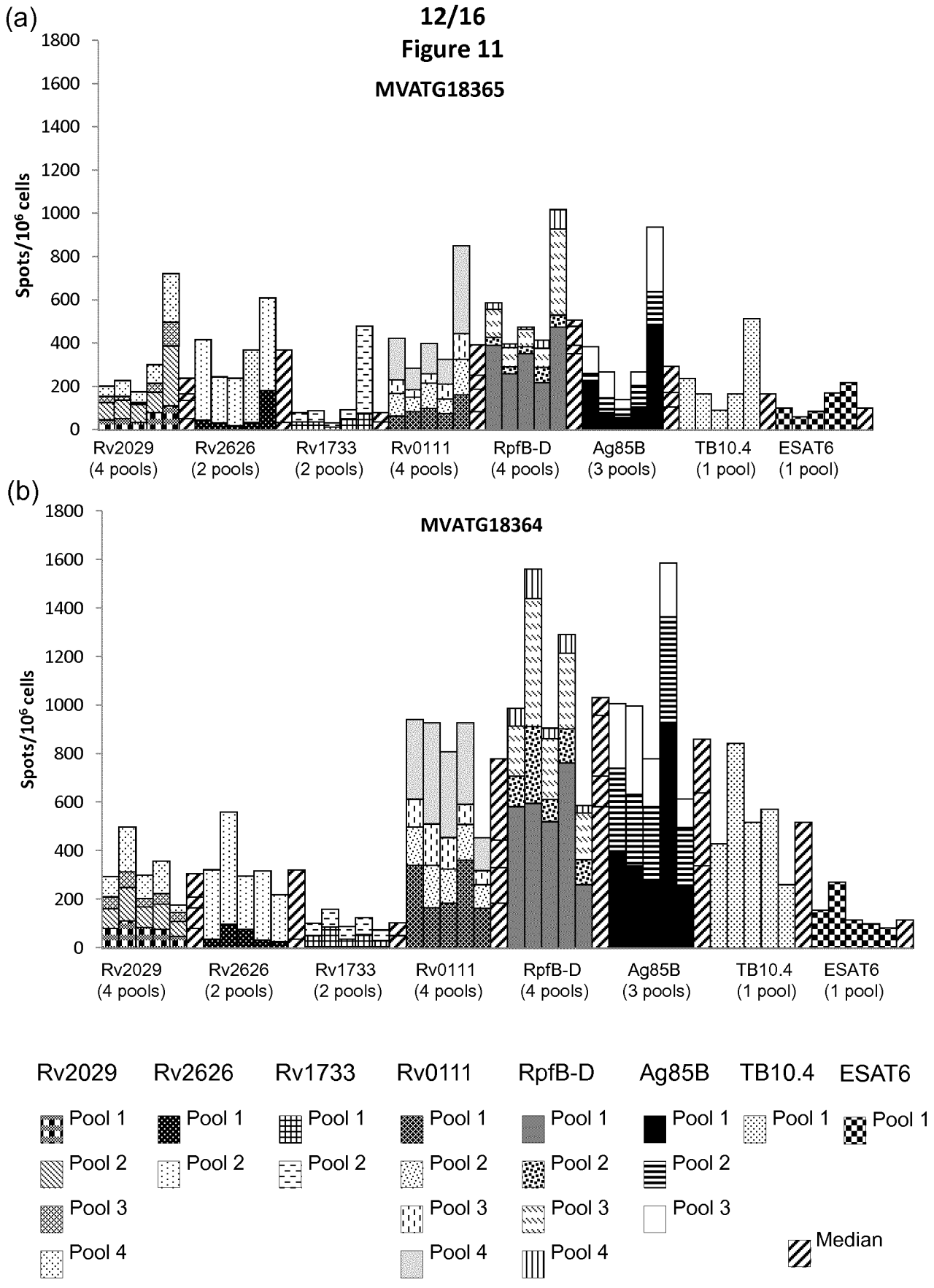
Lane 1: MW
Lanes 1 to 6: intermediate fractions of purification
Lanes 7 to 9: 1, 3 and 6 µL of the final pool

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Figure 10



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Figure 11



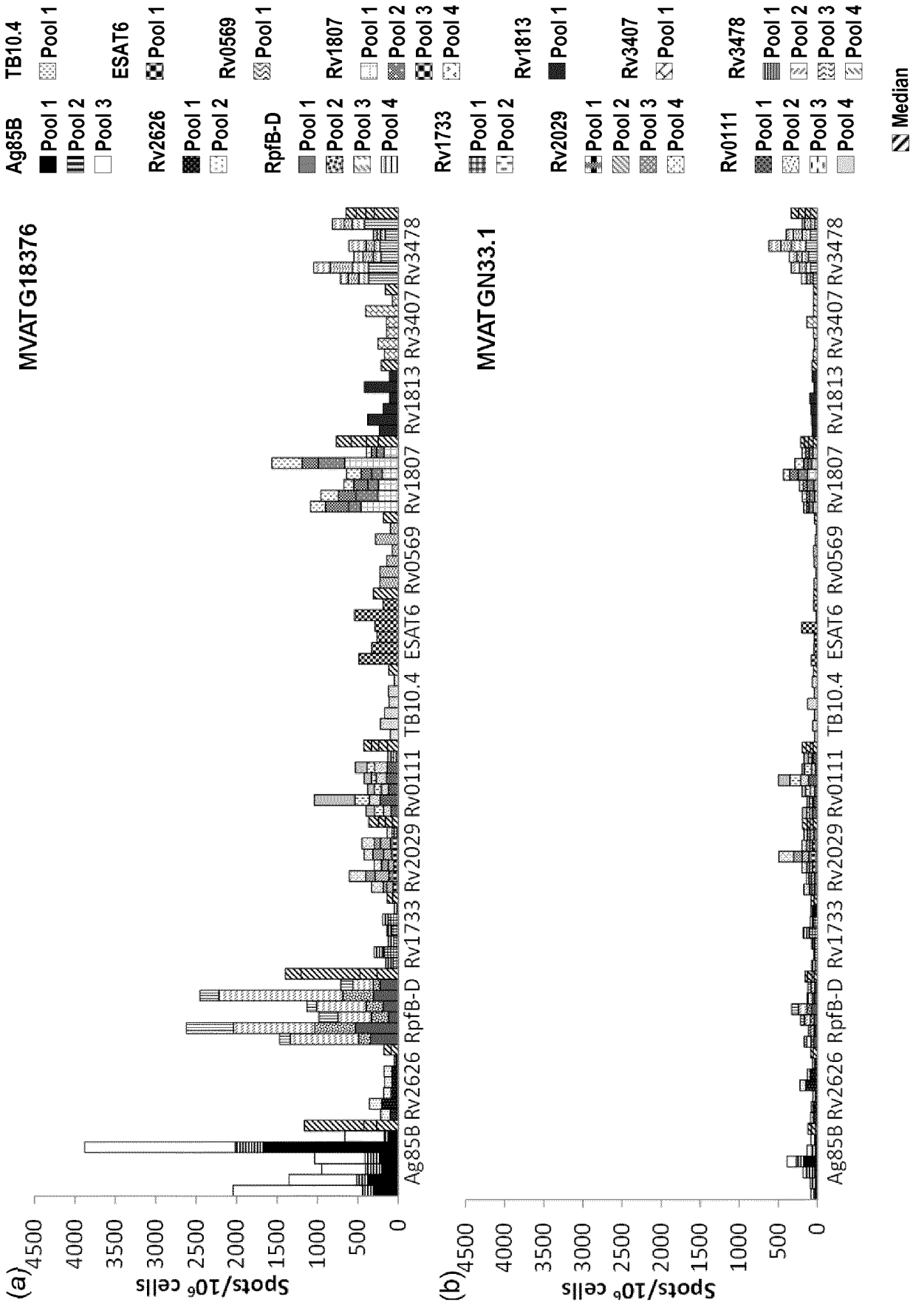
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Figure 12

-	Median < cut-off
+	x1 < median < x2 cut-off
++	x2 < median < x3 cut-off
+++	median > x3 cut-off

		Latent							Resuscitation	Active			
	Vaccine	Rv1733	Rv2029	Rv2626	Rv0111	Rv0569	Rv1807	Rv1813	Rv3407	RpfB-D hyb	Rv3478	Ag85B	ESAT6	TB10.4
by TB phase	MVATG18355	-	-	++	-									
	MVATG18364	-	-	++	+++					+++		+++	-	+++
	MVATG18365	-	-	+++	-					+++		-	-	+
	MVATG18377	-	+	++	++	-	+	+	++	+++	+++	++	+	++
	MVATG18379	-	-	++	++	-	-	-	-	+++	+	+	+	++
	MVATG18376	-	-	+	+	-	+	-	+	+++	++	++	+	+++
	MVATG18378	-	-	+	+	-	-	-	-	+++	+	++	-	+++
by biochemical rationale	MVATG18404	-	+	+++	++							+++	++	++
	MVATG18417	-	-	+++	+	-	+	-	++	+++	+++	+++	+	+++
	MVATG18418	-	-	+++	+++	-	+	-	+	+++	+	+++	+	+++

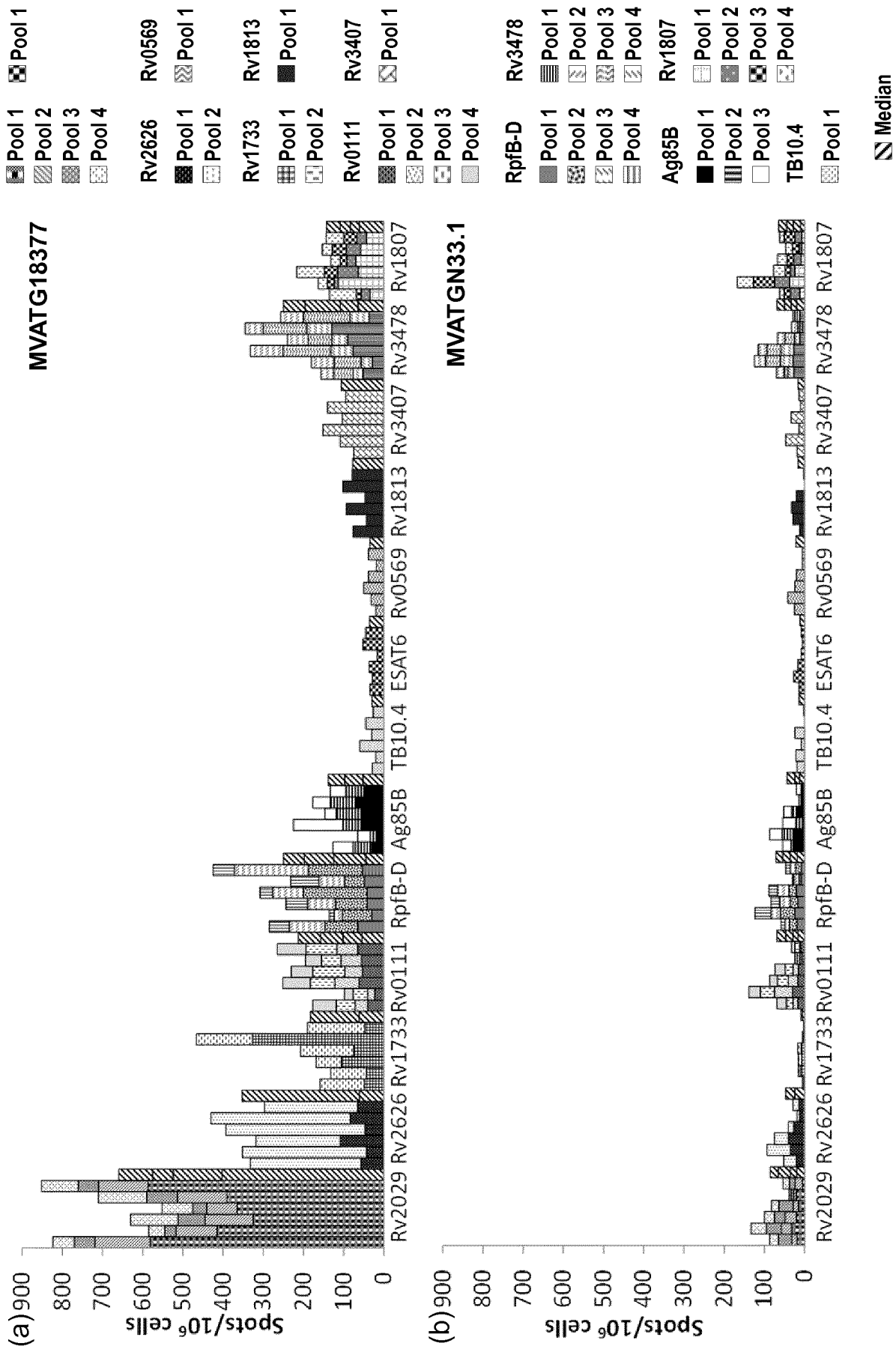
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Figure 13



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Figure 14



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Figure 15

-	Median < cut-off
+	x1 < median < x2 cut-off
++	x2 < median < x3 cut-off
+++	median > x3 cut-off

		Latent							Resuscitation	Active			
	Vaccine	Rv1733	Rv2029	Rv2626	Rv0111	Rv0569	Rv1807	Rv1813	Rv3407	RpfB-D hyb	Rv3478	Ag85B	ESAT6	TB10.4
HLA-A2	MVATG18376	-	-	-	-	+	+	+	+	+++	+	+++	+	-
	MVATG18378	-	-	-	+	+	+	++	-	+++	+	+++	+++	+
C57BL/6	MVATG18377	-	-	-	-	-	+++	-	-	+++	++	+++	+	-
	MVATG18379	-	-	-	-	+	++	-	-	++	+	+++	++	+
C3H/HeN	MVATG18376	-	+	+	-	-	-	-	-	-	-	-	-	-
	MVATG18378	-	++	++	-	-	-	-	-	-	-	-	-	-
	MVATG18377	+	+++	+++	-	-	-	+	+	+	+	-	-	-
	MVATG18379	+	+++	++	-	-	-	-	-	-	-	-	-	-