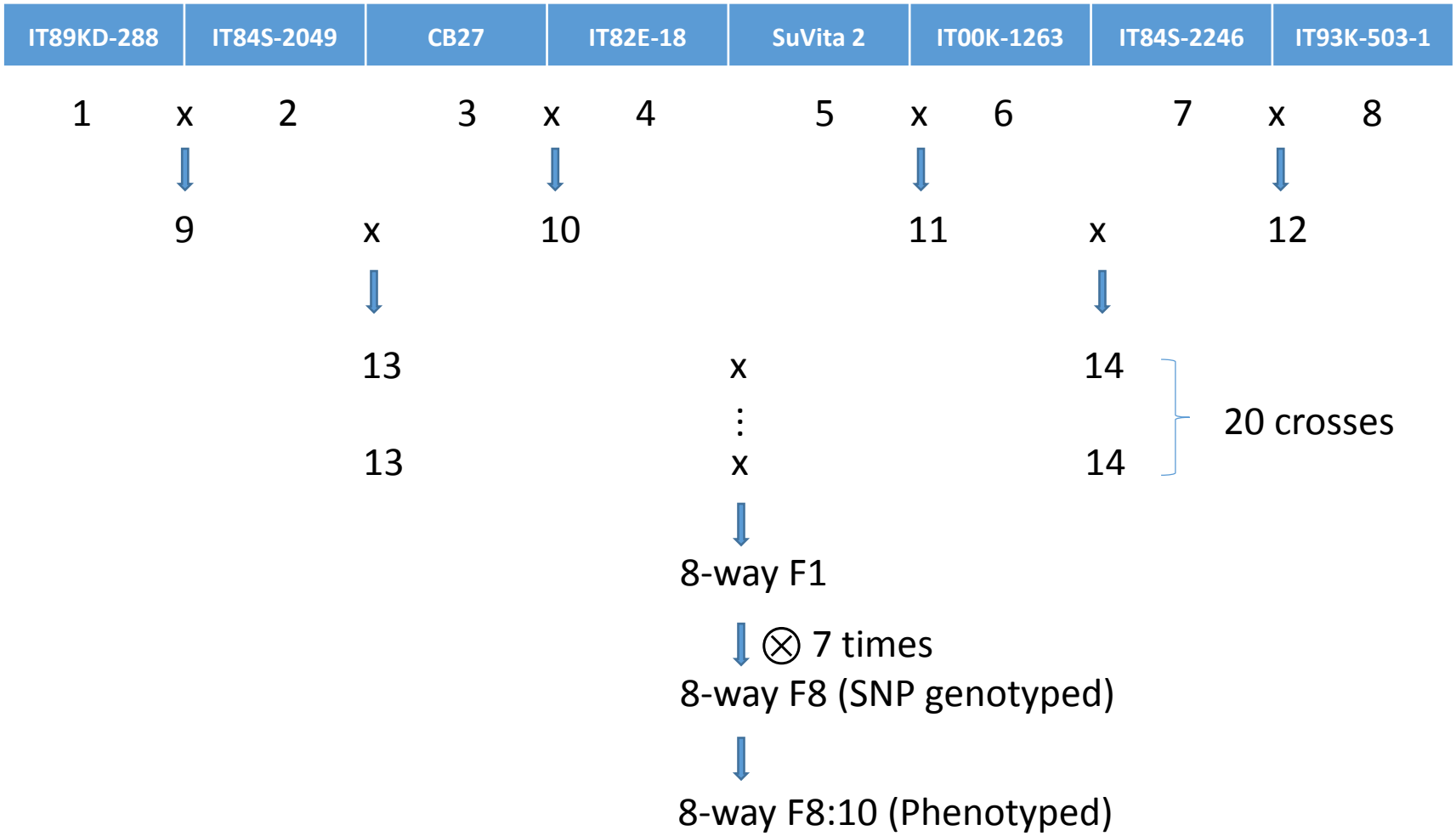
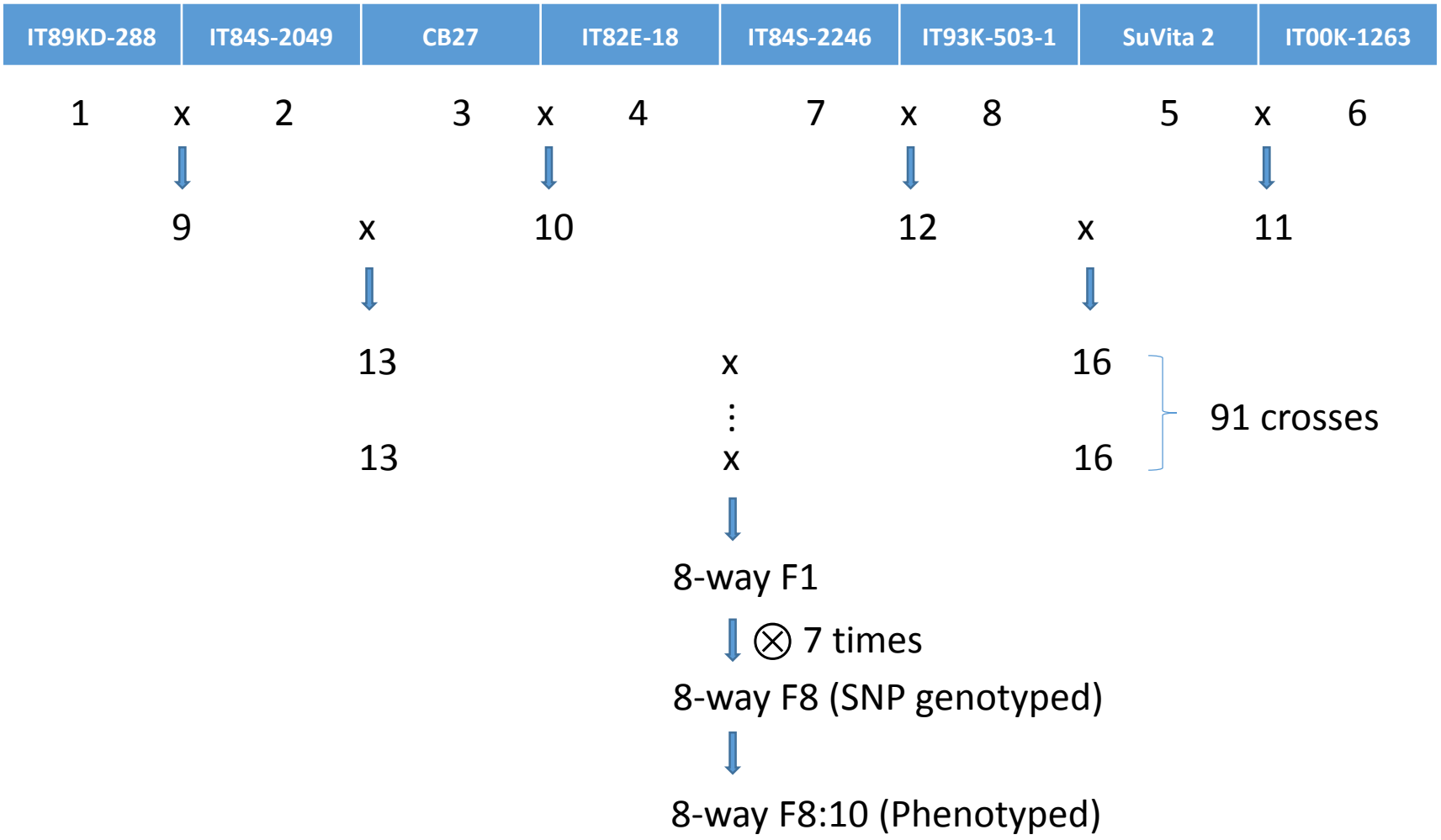
SUPPORTING FIGURE S1: MAGIC Breeding Design

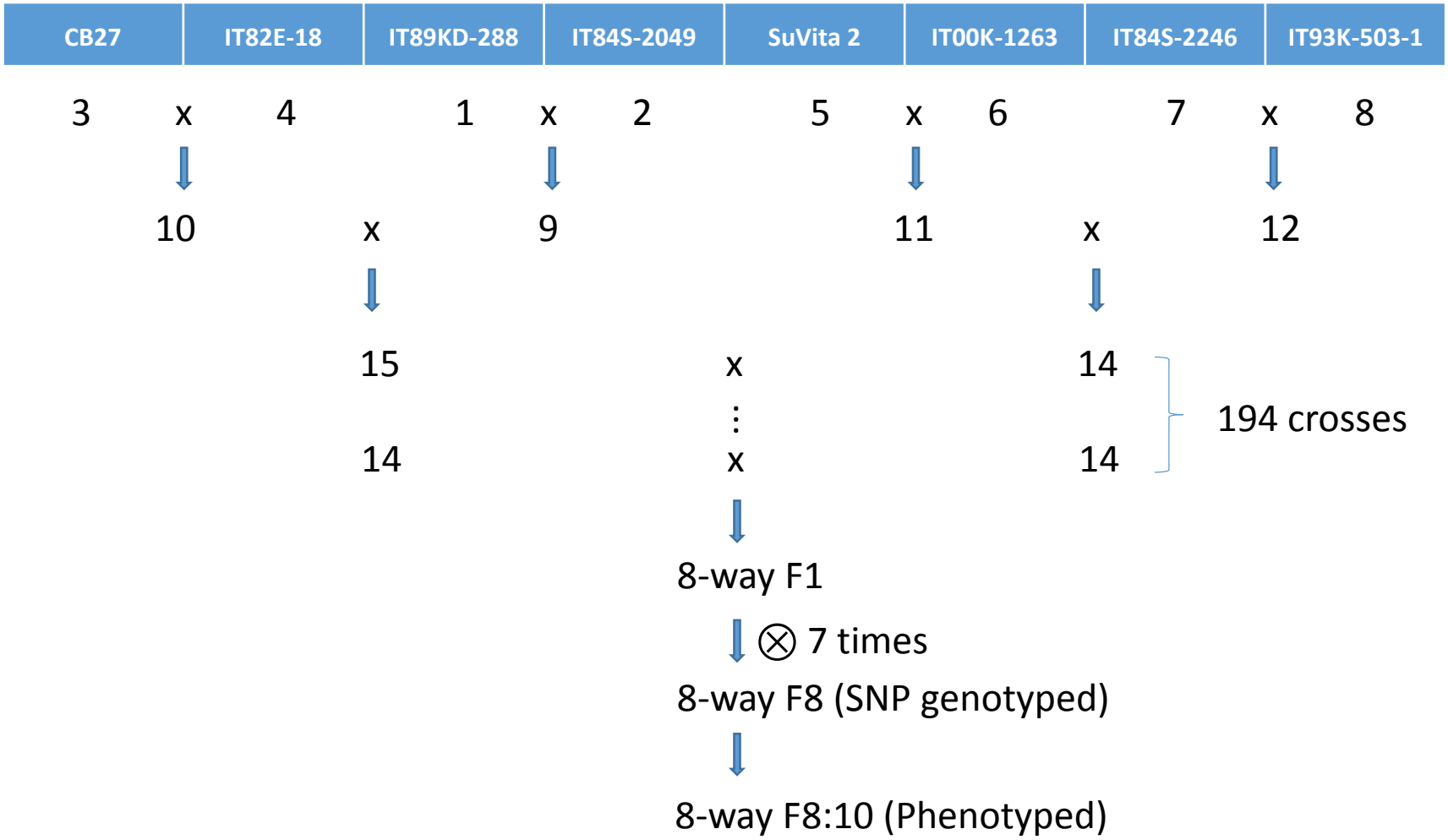
FUNNEL 1



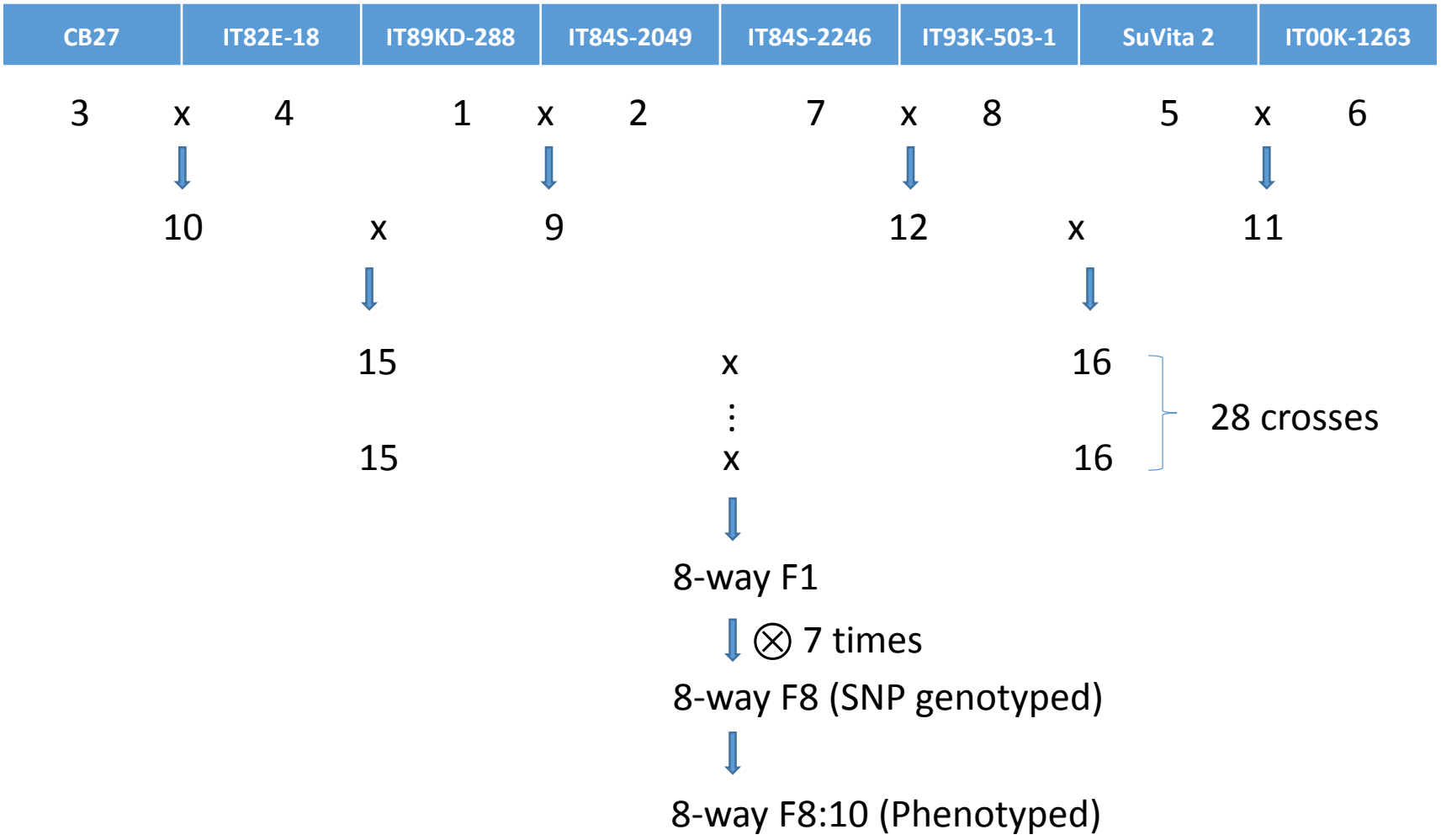
FUNNEL 2


IT89KD-288
IT84S-2049
CB27
IT82E-18
IT84S-2246
IT93K-503-1
SuVita 2
IT00K-1263
1 x 2
3 x 4
7 x 8
5 x 6
9
x
10
12
x
11
13
x
16
13
x
16
91 crosses
8-way F1
⊗ 7 times
8-way F8 (SNP genotyped)
8-way F8:10 (Phenotyped)

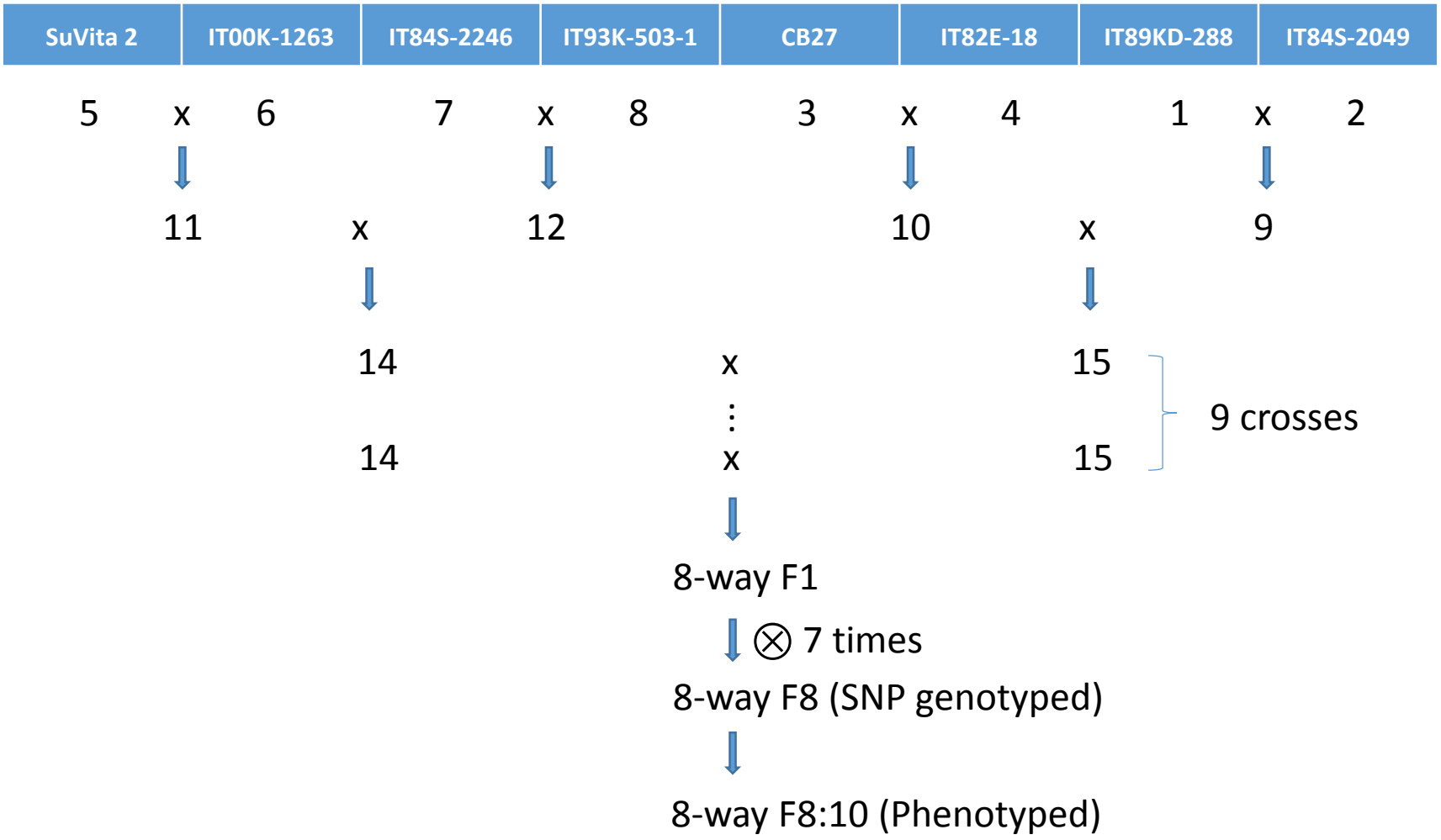
FUNNEL 3


CB27
IT82E-18
IT89KD-288
IT84S-2049
SuVita 2
IT00K-1263
IT84S-2246
IT93K-503-1
3 x 4
1 x 2
5 x 6
7 x 8
10
x
9
11
x
12
15
14
x
14
x
14
194 crosses
8-way F1
⊗ 7 times
8-way F8 (SNP genotyped)
8-way F8:10 (Phenotyped)

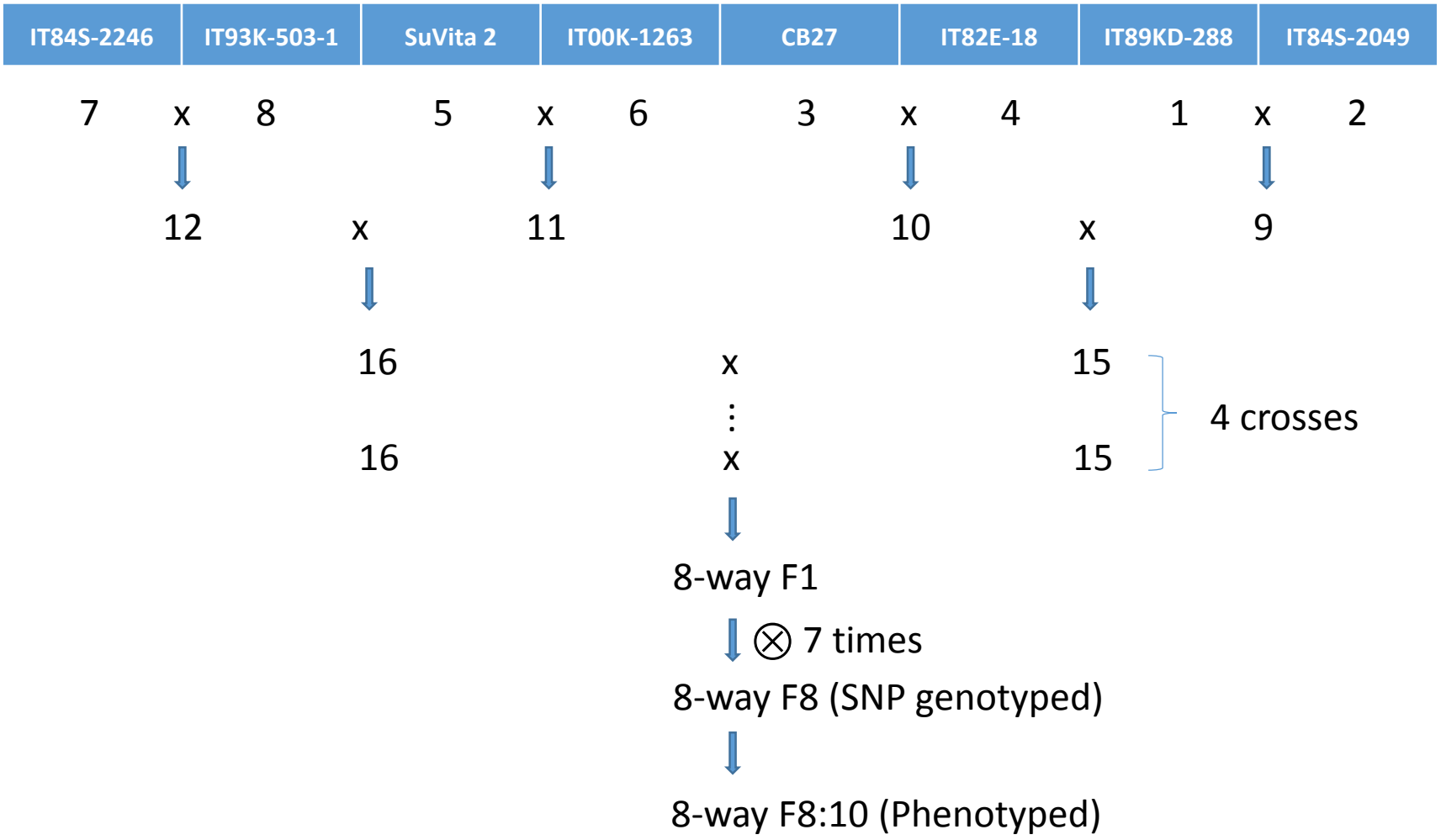
FUNNEL 4


CB27
IT82E-18
IT89KD-288
IT84S-2049
IT84S-2246
IT93K-503-1
SuVita 2
IT00K-1263
3 x 4
1 x 2
7 x 8
5 x 6
10
x
9
12
x
11
15
15
x
x
16
16
28 crosses
8-way F1
⊗ 7 times
8-way F8 (SNP genotyped)
8-way F8:10 (Phenotyped)

FUNNEL 5


SuVita 2
IT00K-1263
IT84S-2246
IT93K-503-1
CB27
IT82E-18
IT89KD-288
IT84S-2049
5 x 6
7 x 8
3 x 4
1 x 2
11
x
12
10
x
9
14
14
x
x
15
15
9 crosses
8-way F1
⊗ 7 times
8-way F8 (SNP genotyped)
8-way F8:10 (Phenotyped)

FUNNEL 6


IT84S-2246
IT93K-503-1
SuVita 2
IT00K-1263
CB27
IT82E-18
IT89KD-288
IT84S-2049
7 x 8
5 x 6
3 x 4
1 x 2
12
x
11
10
x
9
16
16
x
x
15
15
4 crosses
8-way F1
⊗ 7 times
8-way F8 (SNP genotyped)
8-way F8:10 (Phenotyped)