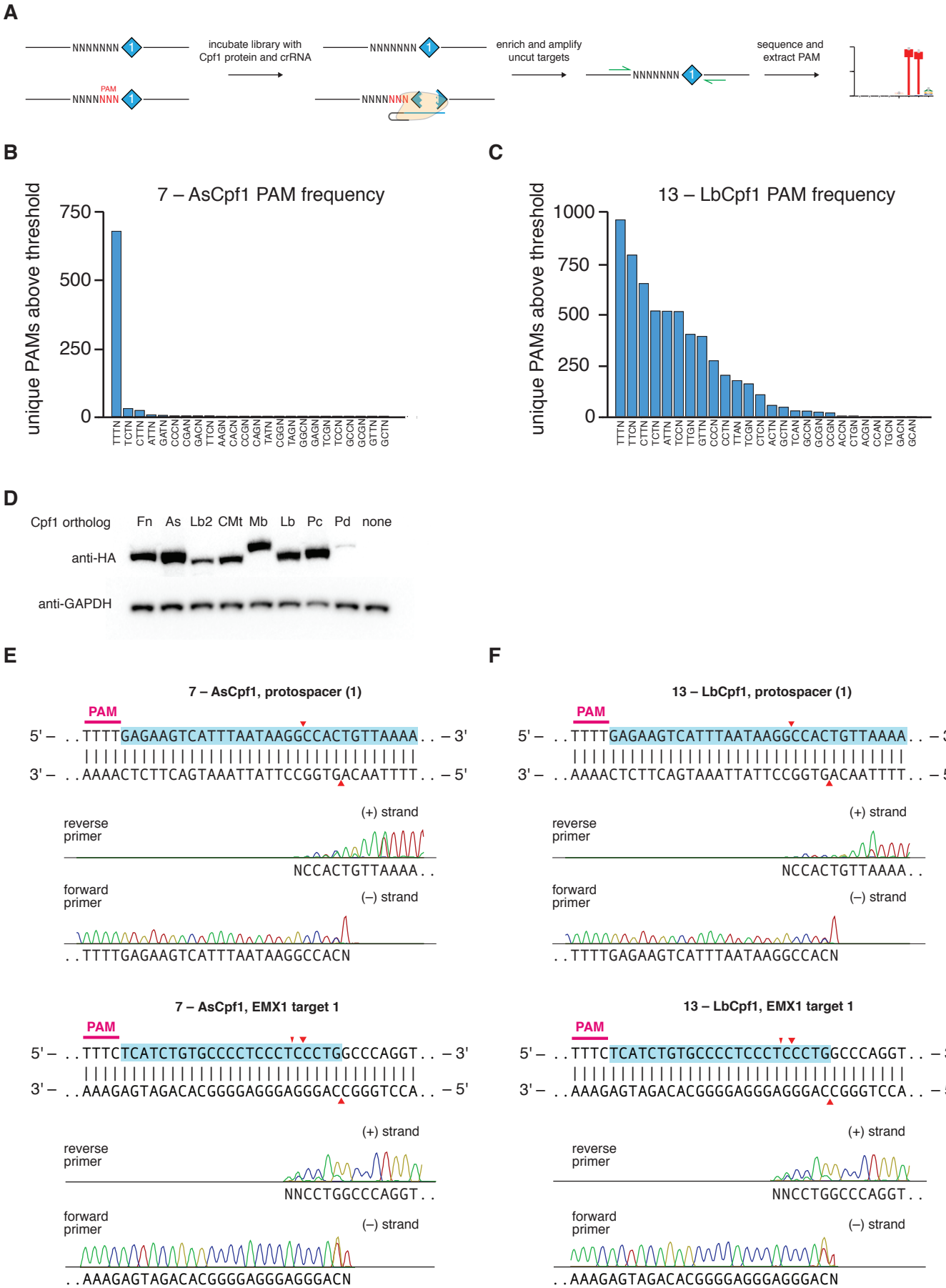
A
NNNNNNN
PAM
NNNNNNN
incubate library with
Cpf1 protein and crRNA
enrich and amplify
uncut targets
sequence and
extract PAM
B
7 – AsCpf1 PAM frequency
unique PAMs above threshold
750
500
250
0
TTTN TCTN CTTN ATTN GATN CCCN CGAN GACN TTCN AAGN CACN CCGN CAGN TATN CGGN TAGN GGCN GAGN TCGN TCCN GCCN GCGN GTTN GCTN
C
13 – LbCpf1 PAM frequency
unique PAMs above threshold
1000
750
500
250
0
TTTN TTCN CTTN TCTN ATTN TCCN TTGN GTTN CCCN CCTN TTAN TCGN CTCN ACTN GCTN TCAN GCCN GCGN CCGN ACCN CTGN ACGN CCAN TGCN GACN GCAN
D
Cpf1 ortholog
Fn As Lb2 CMt Mb Lb Pc Pd none
anti-HA
anti-GAPDH
E
7 – AsCpf1, protospacer (1)
PAM
5' – . . TTTTGAGAAGTCATTTAATAAGGCCACTGTTAAAA . . – 3'
3' – . . AAAACTCTTCAGTAAATTATTCCGGTGACAATTTT . . – 5'
reverse primer
(+) strand
NCCACTGTTAAAA . .
forward primer
(–) strand
. . TTTTGAGAAGTCATTTAATAAGGCCACN
7 – AsCpf1, EMX1 target 1
PAM
5' – . . TTTCTCATCTGTGCCCCTCCCTCCCTGGCCCAGGT . . – 3'
3' – . . AAAGAGTAGACACGGGGAGGGAGGGACCGGGTCCA . . – 5'
reverse primer
(+) strand
NNCCTGGCCCAGGT . .
forward primer
(–) strand
. . AAAGAGTAGACACGGGGAGGGAGGGACN
F
13 – LbCpf1, protospacer (1)
PAM
5' – . . TTTTGAGAAGTCATTTAATAAGGCCACTGTTAAAA . . – 3'
3' – . . AAAACTCTTCAGTAAATTATTCCGGTGACAATTTT . . – 5'
reverse primer
(+) strand
NCCACTGTTAAAA . .
forward primer
(–) strand
. . TTTTGAGAAGTCATTTAATAAGGCCACN
13 – LbCpf1, EMX1 target 1
PAM
5' – . . TTTCTCATCTGTGCCCCTCCCTCCCTGGCCCAGGT . . – 3'
3' – . . AAAGAGTAGACACGGGGAGGGAGGGACCGGGTCCA . . – 5'
reverse primer
(+) strand
NNCCTGGCCCAGGT . .
forward primer
(–) strand
. . AAAGAGTAGACACGGGGAGGGAGGGACN

Figure S6