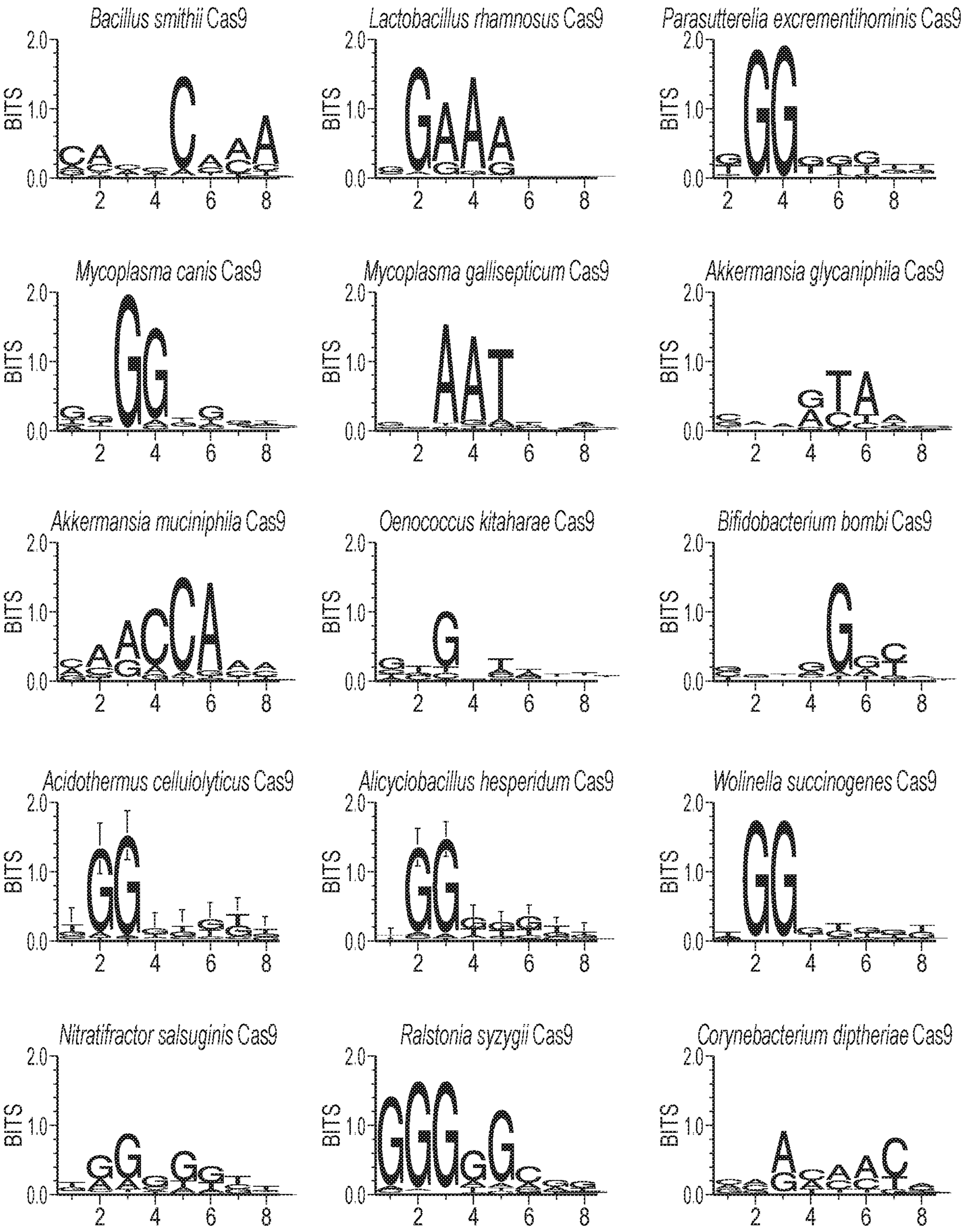

Bacillus smithii Cas9
Lactobacillus rhamnosus Cas9
Parasutterelia excrementihominis Cas9
Mycoplasma canis Cas9
Mycoplasma gallisepticum Cas9
Akkermansia glycaniphila Cas9
Akkermansia muciniphila Cas9
Oenococcus kitaharae Cas9
Bifidobacterium bombi Cas9
Acidothermus cellulolyticus Cas9
Alicyclobacillus hesperidum Cas9
Wolinella succinogenes Cas9
Nitratifractor salsuginis Cas9
Ralstonia syzygii Cas9
Corynebacterium diptheriae Cas9
BITS
2.0
1.0
0.0
2
4
6
8

FIG. 1

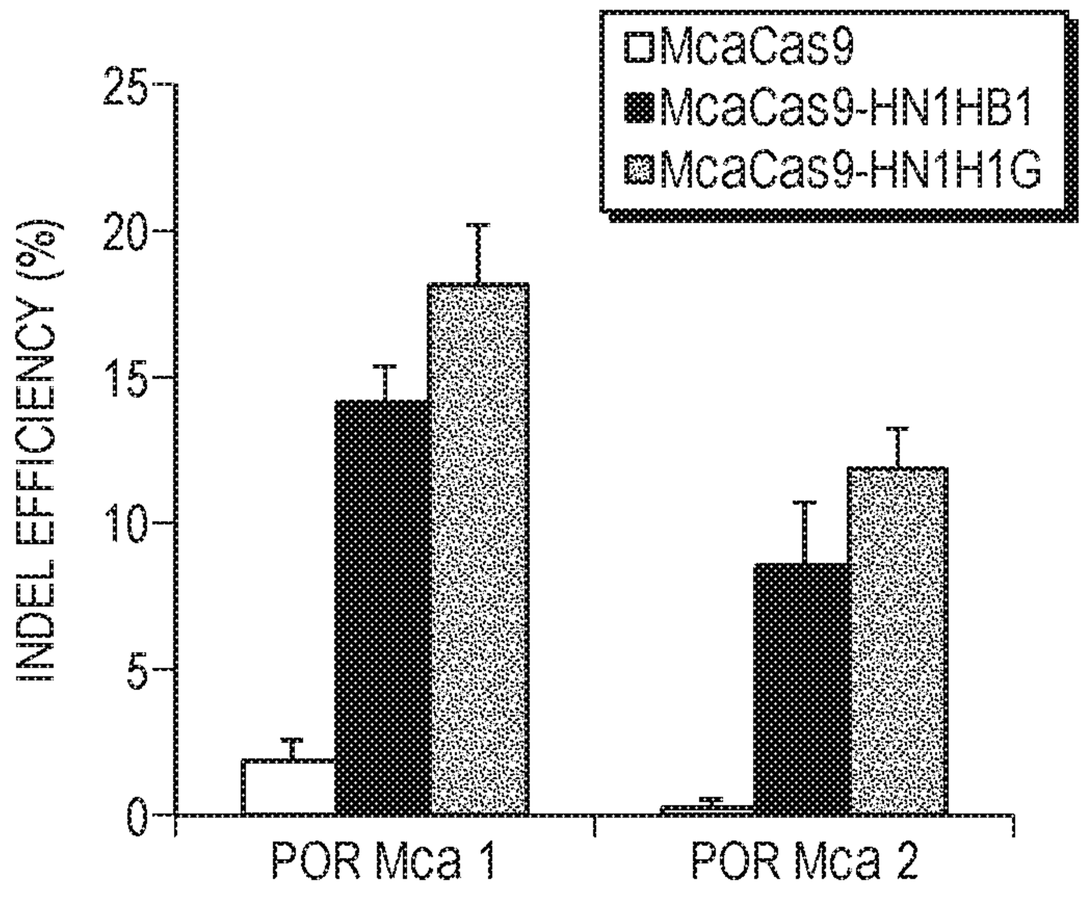

McaCas9
McaCas9-HN1HB1
McaCas9-HN1H1G
INDEL EFFICIENCY (%)
25
20
15
10
5
0
POR Mca 1
POR Mca 2

FIG. 2A

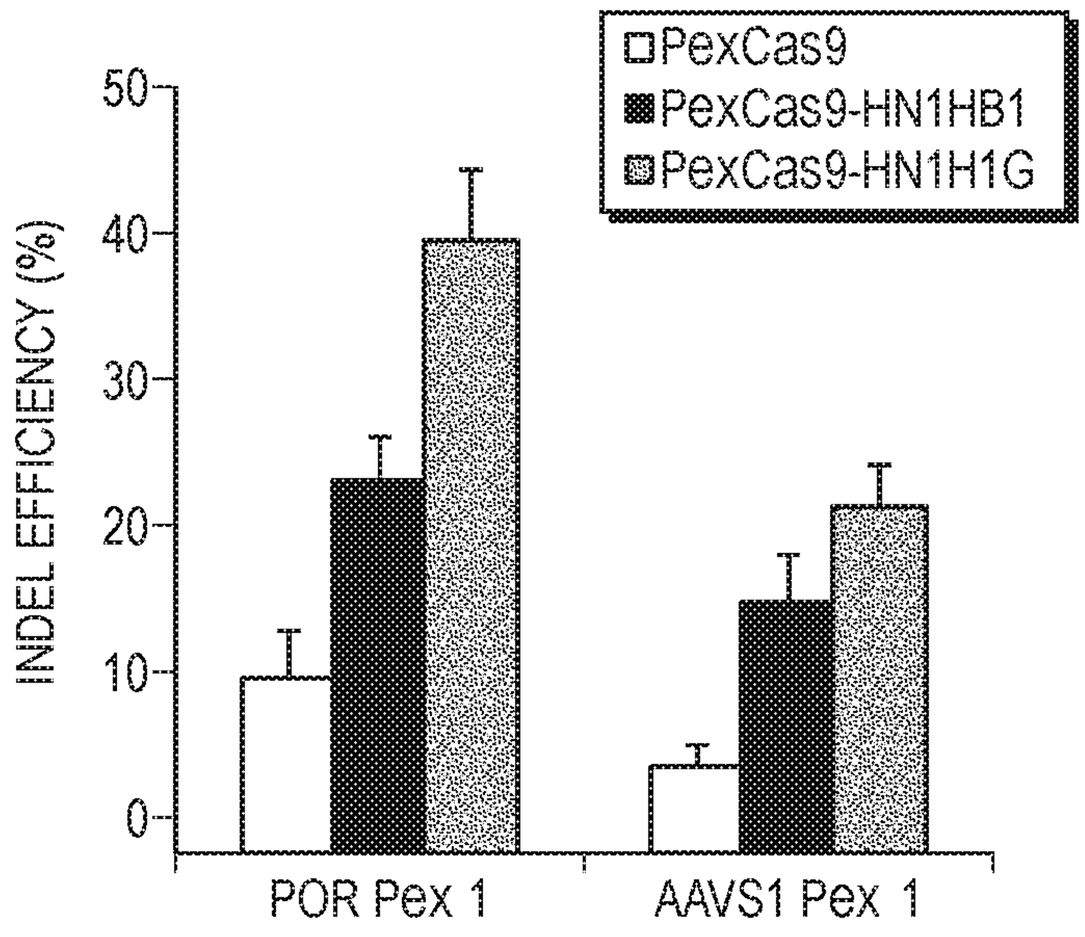

PexCas9
PexCas9-HN1HB1
PexCas9-HN1H1G
INDEL EFFICIENCY (%)
50
40
30
20
10
0
POR Pex 1
AAVS1 Pex 1

FIG. 2B

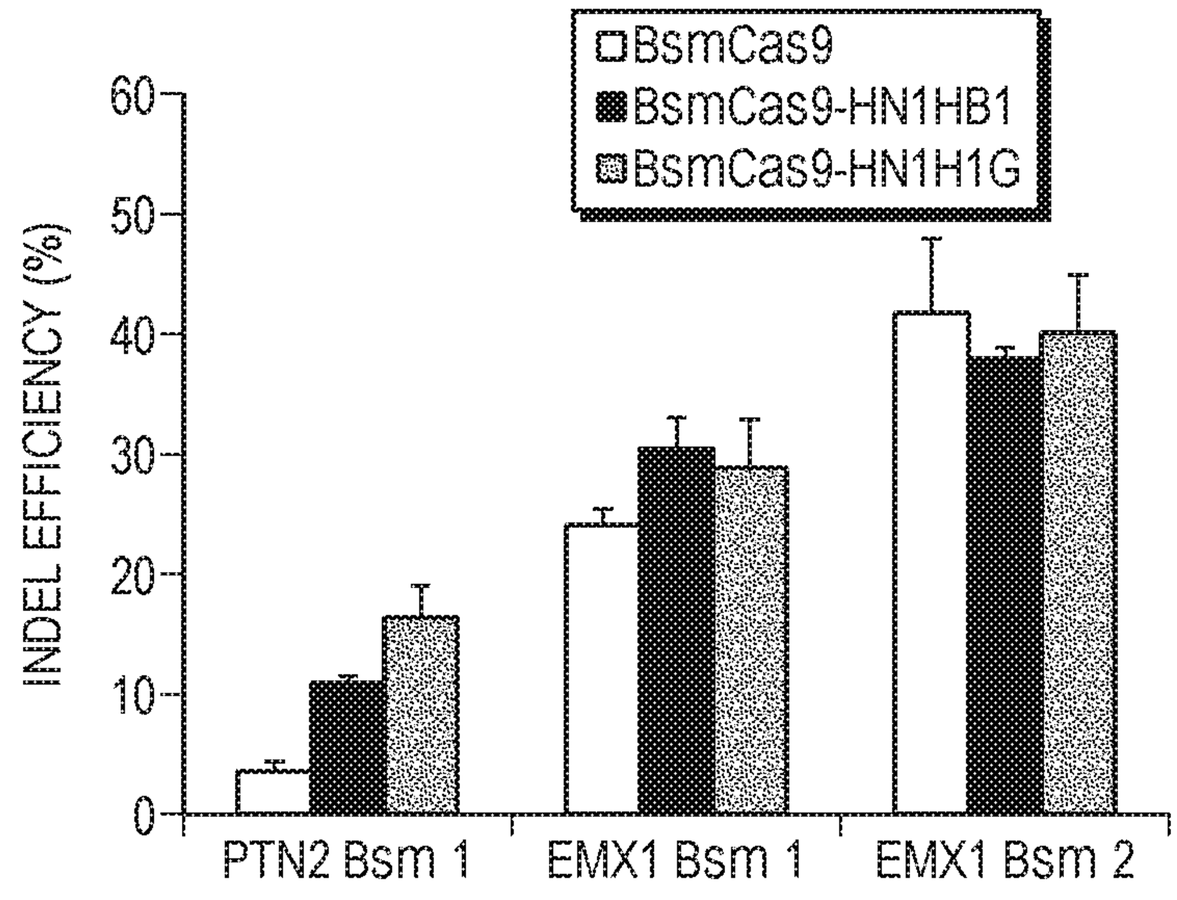

BsmCas9
BsmCas9-HN1HB1
BsmCas9-HN1H1G
INDEL EFFICIENCY (%)
60
50
40
30
20
10
0
PTN2 Bsm 1
EMX1 Bsm 1
EMX1 Bsm 2

FIG. 2C

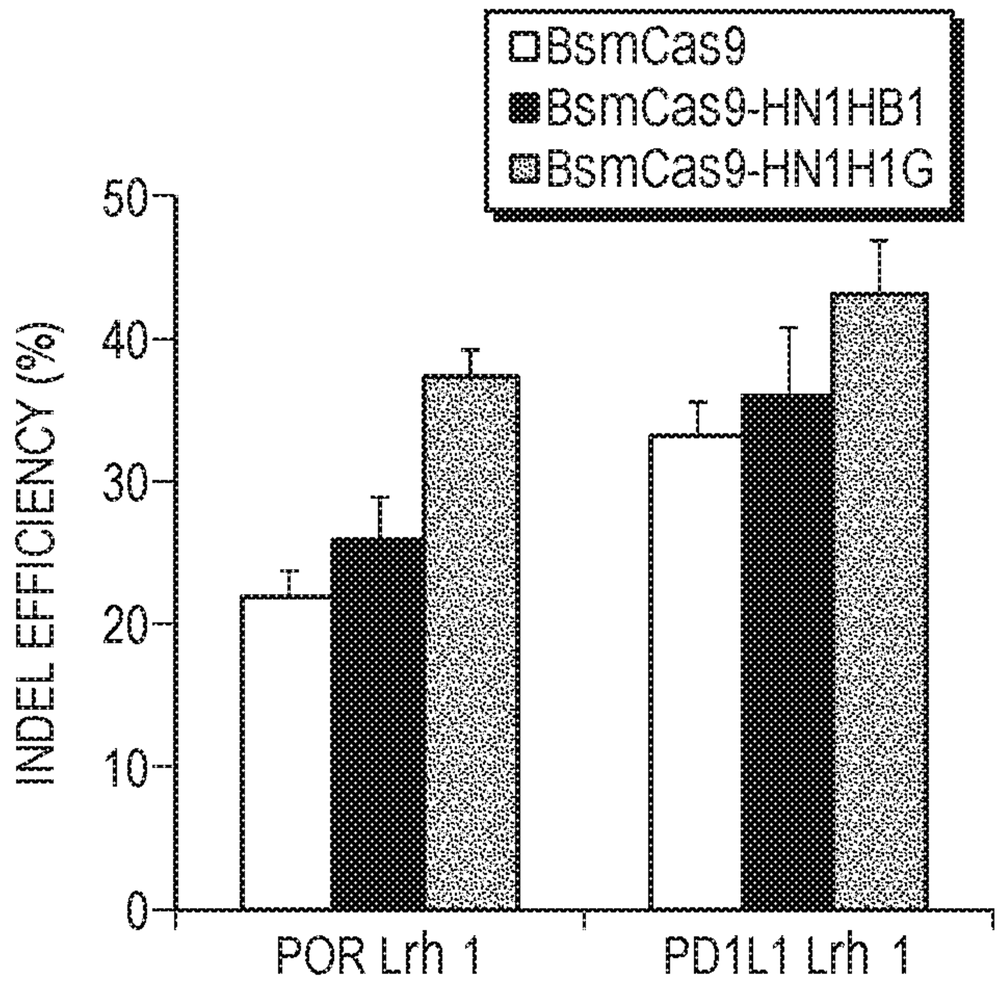

BsmCas9
BsmCas9-HN1HB1
BsmCas9-HN1H1G
INDEL EFFICIENCY (%)
50
40
30
20
10
0
POR Lrh 1
PD1L1 Lrh 1

FIG. 2D

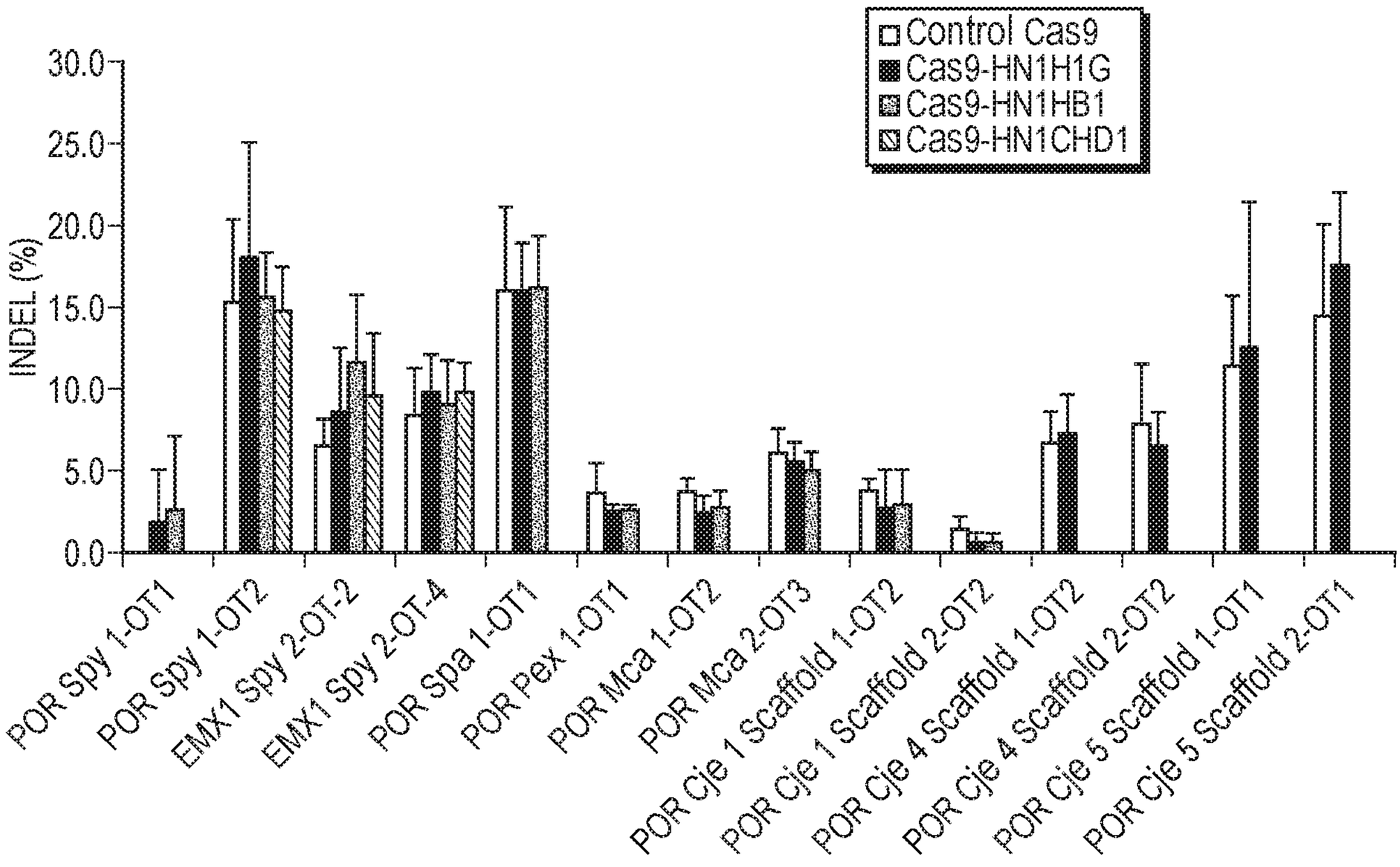

Control Cas9
Cas9-HN1H1G
Cas9-HN1HB1
Cas9-HN1CHD1
INDEL (%)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
POR Spy 1-OT1
POR Spy 1-OT2
EMX1 Spy 2-OT-2
EMX1 Spy 2-OT-4
POR Spa 1-OT1
POR Pex 1-OT1
POR Mca 1-OT2
POR Mca 2-OT3
POR Cje 1 scaffold 1-OT2
POR Cje 1 scaffold 2-OT2
POR Cje 4 scaffold 1-OT2
POR Cje 4 scaffold 2-OT2
POR Cje 5 scaffold 1-OT1
POR Cje 5 scaffold 2-OT1

FIG. 3