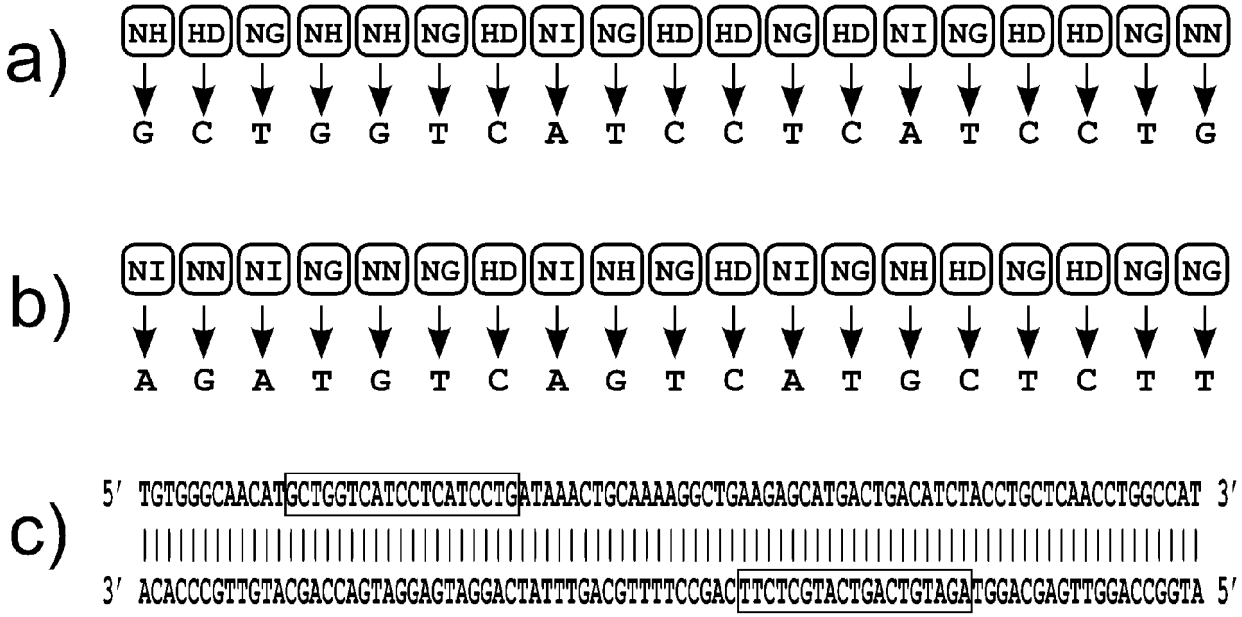

a)
NH HD NG NH NH NG HD NI NG HD HD NG HD NI NG HD HD NG NN
G C T G G T C A T C C T C A T C C T G
b)
NI NN NI NG NN NG HD NI NH NG HD NI NG NH HD NG HD NG NG
A G A T G T C A G T C A T G C T C T T
c)
5′ TGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCAT 3′
3′ ACACCCGTTGTACGACCAGTAGGAGTAGGACTATTTGACGTTTTCCGACTTCTCGTACTGACTGTAGATGGACGAGTTGGACCGGTA 5′

Fig. 1

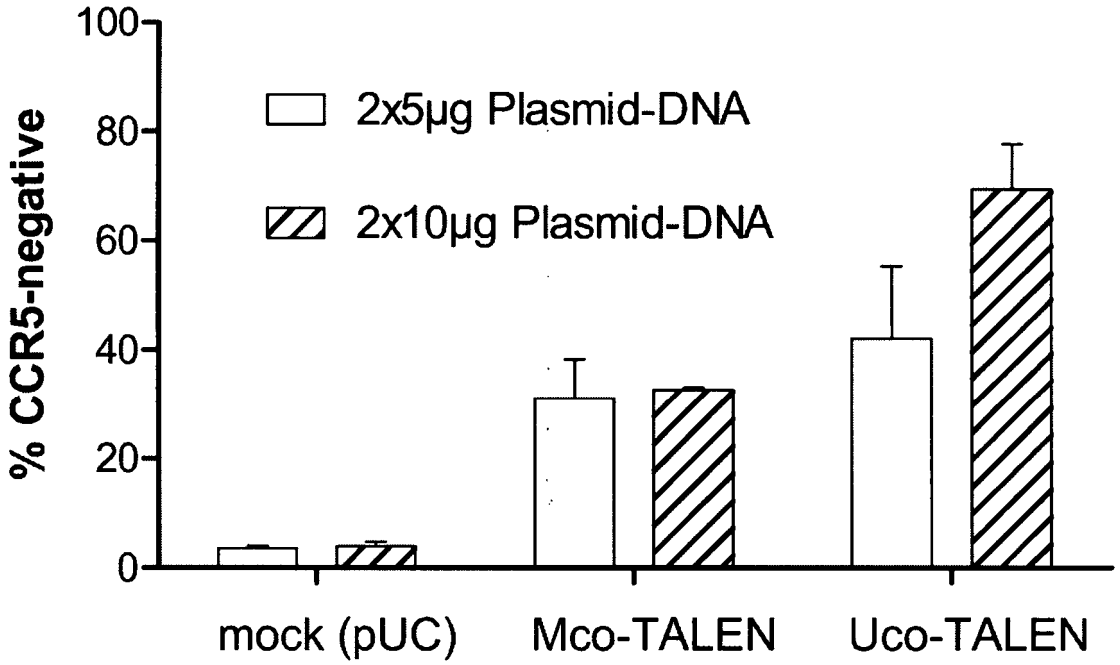

100
80
60
40
20
0
% CCR5-negative
2x5µg Plasmid-DNA
2x10µg Plasmid-DNA
mock (pUC)
Mco-TALEN
Uco-TALEN

Fig. 2

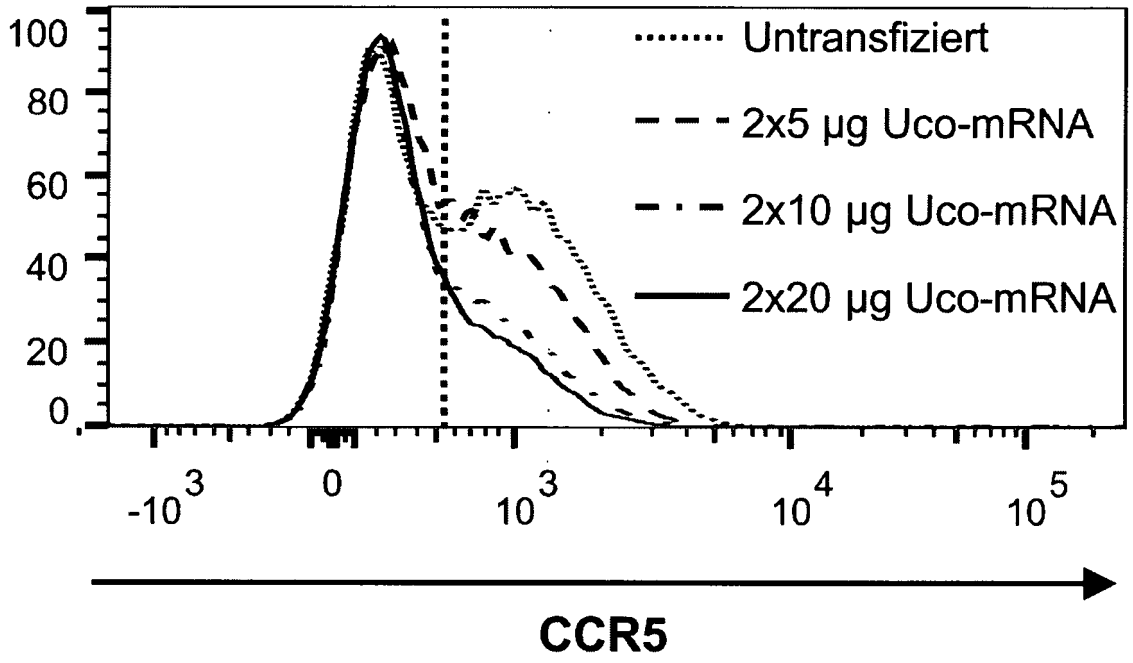

100
80
60
40
20
0
Untransfiziert
2x5 µg Uco-mRNA
2x10 µg Uco-mRNA
2x20 µg Uco-mRNA
-10^3
0
10^3
10^4
10^5
CCR5

Fig. 3a

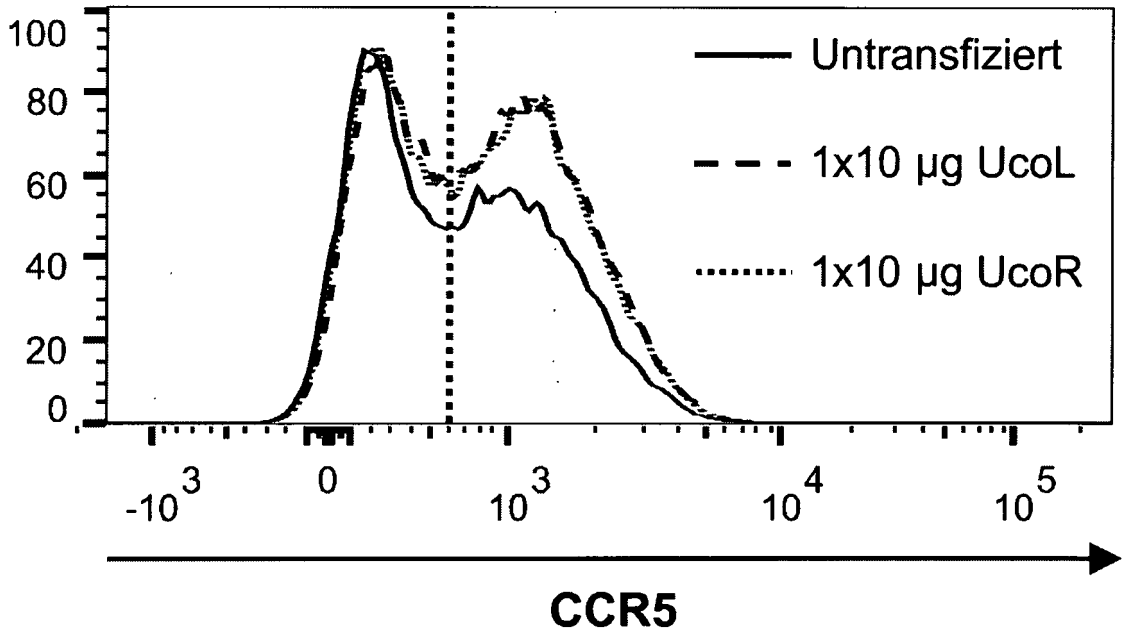

100
80
60
40
20
0
Untransfiziert
1x10 µg UcoL
1x10 µg UcoR
-10^3
0
10^3
10^4
10^5
CCR5

Fig. 3b

```
WT  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#1  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#2  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#3  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCAGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#4  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCAGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#5  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#6  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#7  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCAGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#8  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCAGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#9  TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAAA----------GGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#10 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTAA----------GGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#11 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAA----------CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#12 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCAGATAAAC----------GCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#13 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAA----------ACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#14 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCAGATG----------ACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#15 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATGCATG----------ACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
#16 TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCA----------GATAAACT--GCCATCTCTGACCTG
#17 TTGGTTTTGTGGGCAACANNCTGGTCGTCATCATG----------ACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTG
```

Fig. 3c