

CCR5 mutations in HEK293 induced by LP-ZFNLR(CCR5)

| | |
|---|-----|
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | WT |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATC-----AAAAGGCTGAAGAGCATGACTGACATCT | -12 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCC-----CTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -5 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCAT-----AAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -6 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAGaAGGCTGAAGAGCATGACTGACATCT | 0 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATccACTGCAAAAGGCTGAAGAGCATGACTGACATCT | 0 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATtAAACTGCAAAAGGCTGAAGAGCATGACTGACATC | +1 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATtgatAAACTGCAAAAGGCTGAAGAGCATGACTGAC | +4 |

CCR5 mutations in NHDFs induced by LP-ZFNLR(CCR5)

| | |
|---|-----|
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | WT |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCA-----AAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -7 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCA-----AAAGGCTGAAGAGCATGACTGACATCT | -15 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATC-----AAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -5 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATC-----TGCAAAAGGCTGAAGAGCATGACTGACATCT | -9 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCtAaAAACTGCAAAAaGCTGAAGAGCATGACTGACATCT | 0 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCT--cAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -2 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATctgatAAACTGCAAAAGGCTGAAGAGCATGACTGA | +5 |

CCR5 mutations in HKs induced by LP-ZFNLR(CCR5)

| | |
|---|-----|
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | WT |
| TTGGTTTTGTGGGCAACATGCTGGTCATCC-----CTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -5 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGAT-----GCAAAAGGCTGAAGAGCATGACTGACATCT | -5 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATC-----TGCAAAAGGCTGAAGAGCATGACTGACATCT | -9 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATC-----AAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -5 |
| TTGGTTTTGTGGGCAACA-----GCAAAAGGCTGAAGAGCATGACTGACATCT | -27 |
| TTGGTTTTGTGGGCAAC-----AAAGGCTGAAGAGCATGACTGACATCT | -31 |
| TTGGTTTTGTGGGCAACATGCTGGTC-----TGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCT | -10 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAA-----AGGCTGAAGAGCATGACTGACATCT | -7 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCtTtAaAAACTGCAAAAaGCTGAAGAGCATGACTGACATCT | 0 |
| TTGGTTTTGTGGGCAACATGCTGGT-----AATAAACTGCAAAAaGCTGAAGtGCTtTGACTGACATtT | -12 |
| TTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATctgatAAACTGCAAAAGGCTGAAGAGCATGACTGA | +5 |