-continued

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<223> OTHER INFORMATION: Primer DNA sequence of Beta-actin-R

<400> SEQUENCE: 8

agctcgtagc tcttctcca                                                19


<210> SEQ ID NO 9
<211> LENGTH: 22
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Primer DNA sequence of GAPDH-F

<400> SEQUENCE: 9

atgacatcaa gaaggtggtg aa                                            22


<210> SEQ ID NO 10
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Primer DNA sequence of GAPDH-R

<400> SEQUENCE: 10

gctgttgaag tcagaggaga c                                             21


<210> SEQ ID NO 11
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Guide RNA sequence of CXCR4 gRNA no 1

<400> SEQUENCE: 11

tgttggctgc cttactacat                                               20


<210> SEQ ID NO 12
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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Guide RNA sequence of HRH gRNA no 3

<400> SEQUENCE: 12

cgatcaagtc cgccaccgag                                               20


<210> SEQ ID NO 13
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Guide RNA sequence of non-targeting gRNA

<400> SEQUENCE: 13

acggaggcta agcgtcgcaa                                               20
```

1-173. (canceled)

174. A method of mobilizing a stem cell in a subject, the method comprising:

administering to the subject an inhibitor of CXCR4 and an inhibitor of GPCRx;

wherein the combination of the inhibitor of CXCR4 and the inhibitor of GPCRx induces an enhanced amount of stem cell mobilization relative to the amount of stem cell mobilization induced by the CXCR4 inhibitor only.

175. A method of mobilizing a stem cell in a subject having a CXCR4 protomer and a GPCRx protomer, the method comprising:

administering to the subject an inhibitor of CXCR4 and an inhibitor of GPCRx;