

SUPPLEMENTAL SEQUENCES

The EGFP reporter cell lines

CMV-EGFP-pA:

TAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCG
CGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCGCC
CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGA
CGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATC
ATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATT
TGCCCAGTACATGACCTTATGGGACTTTCTACTTGGCAGTACATCTACGTATTAGTCA
TCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGT
TTGACTCACGGGGATTTCCAAGTCTCCACCCATTGACGTCAATGGGAGTTTGT
GGCACAAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCATTTGACGC
AAATGGGCGGTAGGCGGTGACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTAGTGA
ACCGTCAGATCGCTAGCGCTACCGGACTCAGATCTCGAGCTCAAGCTTTCGAATTCT
GCAGTCGACGGTACCGCGGGCCCGGGATCCACCGGCCGGTCGCCACCATGGTGA
GCAAGGGCGAGGAGCTGTTACCGGGGTGGTGCCATCCTGGTCGAGCTGGACGG
CGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACC
TACGGCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTG
GCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCC
GACCACATGAAGCAGCAGACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCA
GGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTG
AAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAA
GGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACACTACAACAGCCACAACG
TCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACCTCAAGATCCGCC
ACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCC
CATCGGCGACGGCCCCGTGCTGCTGCCGACAACCACTACCTGAGCACCCAGTCC
GCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTTCG
GACCGCCGCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCCG
GACTCTAGATCATAATCAGCCATACCACATTTGTAGAGGTTTTACTTGCTTTAAAAAC
CTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACT
TGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATA
AAGCATTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTAA
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PCR primers for the HPRT homology arms. Only annealing sequences of the primer tails are shown.

HPRT_left_forward (HPRT_LF): CATGTTTGGTACTTGTTTCAGC

HPRT_left_reverse (HPRT_LR): TTAGCCAGGCATGGTAGC

HPRT_right_forward (HPRT_RF): ACTAGTCACCTTGGAGGATAT

HPRT_right_reverse (HPRT_RR): CAAAGCATTTCTACCACTCAG

Screening primers:

HPRT_external_forward (HPRT_EF): AGTATCAGTTGTGGTATAGTGG

EGFP_internal_reverse (EGFP_IR): GGTGGTGCAGATGAACTT

EGFP_internal_forward (EGFP_IF): CGACAACCACTACCTGAG

HPRT_external_reverse (HPRT_ER): ATCAGTTGAGGAGTTCAGC

The EGFP-BFP conversion

sgRNA sequences:

GFP_S: CTCGTGACCACCCTGACCTA

GFP_AS: GCACTGCACGCCGTAGGTCA

GFP_PAMout_S: CTCGTGACCACCCTGACCTA

GFP_PAMout_AS: CCAGGGCACGGGCAGCTTGC

GFP_PAMin_S: CCGGCAAGCTGCCCGTGCCC

GFP_PAMin_AS: GCTGAAGCACTGCACGCCGT

ODN donors:

BFP_S160:

ACGGCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTG
GCCACCCTCGTGACCACCCTGTCTCATGGCGTGCAGTGCTTCAGCCGCTACCCCG
ACCACATGAAGCAGCAGCACTTCTTCAAGTCCGCCATGCCCGAAGGCTA

BFP_AS160:

TAGCCTTCGGGCATGGCGGACTTGAAGAAGTCGTGCTGCTTCATGTGGTCGGGGTA
GCGGCTGAAGCACTGCACGCCATGAGACAGGGTGGTCACGAGGGTGGGCCAGGG
CACGGGCAGCTTGCCGGTGGTGCAGATGAACTTCAGGGTCAGCTTGCCGT

BFP_S160_6SNP_A (S_6SNP_A):

ACGGCAAGCTGACCCTGAAATTCATCTGCACCACCGGCAAAGCTGCCCGTGCCCTGG
CCCACACTCGTGACCACCCTGTCTCATGGCGTGCAGTGCTTCAGTCGCTACCCCGA
CCACATGAAACAGCAGCACTTCTTCAAGTCTGCCATGCCCGAAGGCTA

BFP_S160_6SNP_B (S_6SNP_B):

ACGGCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTCCCCTGG
CCCACCCTCGTACCACGCTGTCTCATGGCGTCCAGTGTTTCAGCCGCTACCCTGA
CCACATGAAGCAGCAGCACTTCTTCAAGTCCGCCATGCCCGAAGGCTA

BFP_AS160_6SNP_A (AS_6SNP_A):

TAGCCTTCGGGCATGGCAGACTTGAAGAAGTCGTGCTGTTTCATGTGGTCGGGGTA
GCGACTGAAGCACTGCACGCCATGAGACAGGGTGGTCACGAGTGTGGGCCAGGG
CACGGGCAGTTTGCCGGTGGTGCAGATGAAATTCAGGGTCAGCTTGCCGT

BFP_AS160_6SNP_B (AS_6SNP_B):

TAGCCTTCGGGCATGGCGGACTTGAAGAAGTCGTGCTGCTTCATGTGGTCAGGGTA
GCGGCTGAAACACTGGACGCCATGAGACAGCGTGGTGACGAGGGTGGGCCAGGG

GACGGGCAGCTTGCCGGTGGTGCAGATGAACTTCAGGGTCAGCTTGCCGT
BFP_S90_Biotin:
CACCGGCAAGCTGCCCCTGCCCTGGCCCACCCTCGTGACCACCCTGTC/iBiodT/CA
TGGCGTGCACTGCTTCAGCCGCTACCCCGACCACATGAA

PCR primers:

BFP_external_forward (BFP_EF): CACAAGTTCAGCGTGTCC
BFP_external_reverse (BFP_ER): GGTGCTCAGGTAGTGGTT
BFP_confirmation_forward (BFP_CF): CCACCCTGTCTCATGGC
BFP_quantification_reverse (BFP_QR): TGTGGCTGTTGTAGTTGTA

The PIGA targeting system

sgRNA sequences:

PIGA_S: GGTATATGACCGGGTATCAG
PIGA_AS: ACACAGCTTCCACTGATACC

ODN donors:

PIGA_KO_S160:
TGTTTATCATGGGACAGGTGATGGGGTGTAGTGTGCTCACACTTGGCTTGT
CTCCCTCCAGGTTTATGATCGGTGATCAGTGGAGGCTGTGTTGCCATATGGACAAACG
ACTGGATAGACTTATTTCTCACTGCGGCCAGTAACAGGCTACATC

PIGA_KO_AS160:
GATGTAGCCTGTTACTGGGCCGAGTGAGAAATAAGTCTATCCAGTCGTTTGTCCAT
AGGCAACACAGCTCCACTGATACCGATCATAAACCTGGAGGGAGACAAGCCAAG
TGTGAGCACTATCACCCATCACCCATCACCTGTCCCATGATAAACA

PCR primers:

PIGA_Nextera_forward (PIGA_NextF):
TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTGCAGGATCGGGTCATT
PIGA_Nextera_reverse (PIGA_NextR):
GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGTGAGGAAGAGGAAGTTGAA

Supplemental Fig. S10. Supplemental Sequences. This file contains the relevant nucleotide sequences of all plasmids, ODN donors and primers generated in this study. The features of the plasmids and ODN donors are internally color coded as indicated by their names.