

Supplementary Materials for
An RNA-aptamer-based two-color CRISPR labeling system

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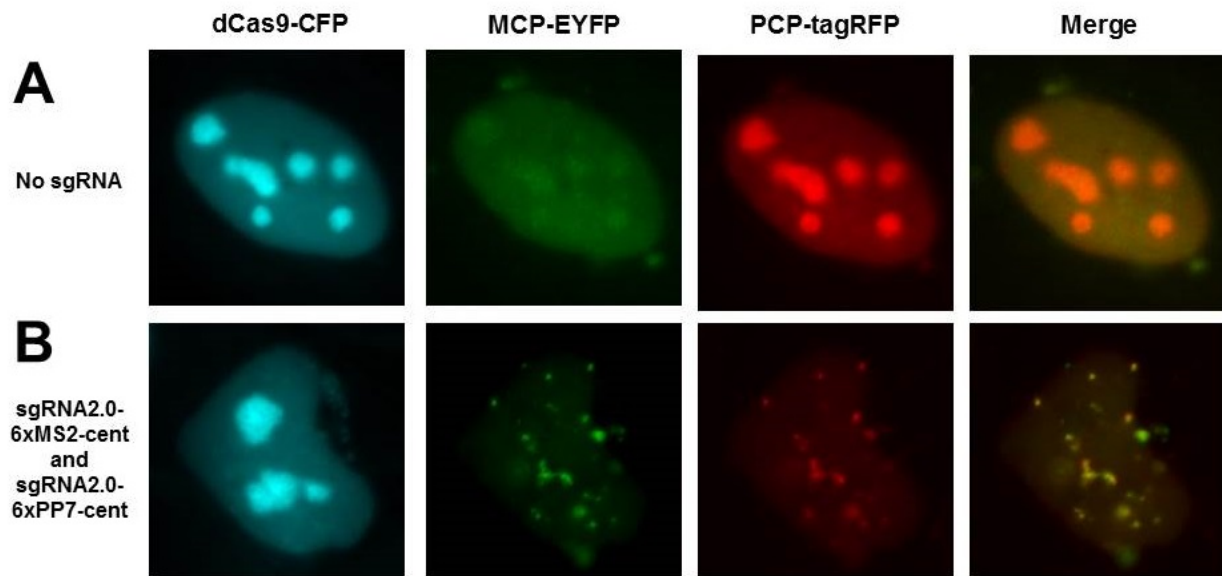


Figure S1. Three-color imaging of the dCas9-ECFP, MCP-EYFP, and PCP-tagRFP. (A) Untransfected cells. (B) Cells co-transfected with sgRNA2.0-6xMS2 and sgRNA2.0-6xPP7 targeting centromeres. First column: CFP fluorescence channel. Second column: EYFP fluorescence channel. Third column: tagRFP fluorescence channel. Fourth column: composite images of the EYFP and tagRFP channels.

Sequence of pLVX-dCas9-ECFP in GenBank format

LOCUS pLVX_dCas9_ECFP 12765 bp ds-DNA circular 30-DEC-2015
DEFINITION Lentiviral vector for doxycycline-inducible expression of a gene in cells containing the Tet-On 3G transactivator protein.
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VERSION .
KEYWORDS pLVX-TRE3G
SOURCE synthetic DNA construct
ORGANISM synthetic DNA construct
REFERENCE 1 (bases 1 to 7819)
AUTHORS Clontech
TITLE Direct Submission
JOURNAL Exported Friday, Jun 27, 2014 from SnapGene Viewer 2.4.2
<http://www.snapgene.com>
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VERSION .
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ORGANISM synthetic DNA construct
REFERENCE 1 (bases 1 to 7819)
AUTHORS Clontech
TITLE Direct Submission
JOURNAL Exported Friday, Jun 27, 2014 from SnapGene Viewer 2.4.2
<http://www.snapgene.com>
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Sequence of pLVX-PCP-tagRFP in GenBank format

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VERSION .
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SOURCE synthetic DNA construct
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 REFERENCE 1 (bases 1 to 7819)
 AUTHORS Clontech
 TITLE Direct Submission
 JOURNAL Exported Friday, Jun 27, 2014 from SnapGene Viewer 2.4.2
<http://www.snapgene.com>

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Sequence of psgRNA1.0-6xMS2-telo in GenBank format

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ORGANISM other sequences; artificial sequences; vectors.
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 241 TGGAAAGGAC GAAACACCGT TAGGGTTAGG GTTAGGGTTA gtttAagagc taTGCTGgaa
 301 aCAGCAtagc aagttTaaat aaggctagtc cgttatcaac ttgaaaaagt ggcaccgagt
 361 cgggtcTCTG CAGGTCGACT CTAGAAAACA TGAGGATCAC CCATGTCTGC AGTATTCCCG
 421 GGTTCATTAG ATCCTAAGGT ACCTAATTGC CTAGAAAACA TGAGGATCAC CCATGTCCGA
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 541 CCATGTCTT GCGAGATTAC GCGGCACATT ATTGGTCGAC GCCGCGAGCT ATCGTAAACA
 601 TGAGGATCAC CCATGTCTCT GTTTGACGCG CTGGACGCC ATGATCGTCC GATCTGGCCC
 661 GCGTTAAACA TGAGGATCAC CCATGTCTCT CCGCGGCTTG AAACCATACA CCGAACGAGA

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781 TTTGCGGCCG CGACTCTAGA TCATAATCAG CCATACCACA TTTGTAGAGG TTTTACTTGC
841 TTTAAAAAC CCTCCACACC TCCCCTGAA CCGTAAACAT AAAATGAATG CAATTGTTGT
901 TGTTAACTTG TTTATTGCAG CTTATAATGG TTACAAATAA AGCAATAGCA TCACAAATTT
961 CACAAATAAA GCATTTTTTT CACTGCATTC TAGTTGTGGT TTGTCCAAAC TCATCAATGT
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Sequence of psgRNA1.0-6xPP7-telo in GenBank format

LOCUS psgRNA1_0_6xPP7 4135 bp ds-DNA circular 02-JAN-2016
DEFINITION pEYFP-N1
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ORGANISM other sequences; artificial sequences; vectors.
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 241 TGGAAAGGAC GAAACACCGT TAGGGTTAGG GTTAGGGTTA gtttAagagc taTGCTGgaa
 301 aCAGCAtagc aagttTaaat aaggctagtc cgttatcaac ttgaaaaagt ggcaccgagt
 361 cgggtcTCTG CAGGTCGACT CTAGAGGAGC AGACGATATG GCGTCGCTCC TGCAGTATTC
 421 CCGGGTTTAT TAGATCCTAA GGTACCTAAT TGCCTAGACC AGCAGAGCAT ATGGGCTCGC
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Sequence of psgRNA2.0-6xMS2-telo in GenBank format

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Sequence of psgRNA2.0-6xPP7-telo in GenBank format

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Sequence of psgRNA2.0-6xPP7-cent in GenBank format

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ACCESSION
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1681 GCAAAGCATG CATCTCAAT AGTCAGCAAC CATAGTCCCG CCCCTAATC CGCCCATCCC
1741 GCCCTAATC CGCCAGTT CCGCCATTC TCCGCCCAT GGCTGACTAA TTTTTTTTAT
1801 TTATGCAGAG CCGAGGCCG CTTCCGCTC TGAGTATTC CAGAAGTAGT GAGGAGGCTT
1861 TTTTGGAGGC GTAGCTTTT GCAAAGATC ATCAAGAGAC AGGATGAGGA TCGTTTCGCA
1921 TGATTGAACA AGATGGATTG CACGCAGGTT CTCCGCCGCG TTGGGTGGAG AGGCTATTCC
1981 GCTATGACTG GGCACAACAG ACAATCGGCT GCTCTGATGC CGCCGTGTT CCGCTGTCAG
2041 CGCAGGGGCG CCCGGTTCTT TTTGTCAAGA CCGACCTGTC CGGTGCCCTG AATGAAGTGC
2101 AAGACGAGG ACGCGGCTA TCGTGGCTGG CCACGACGGG CGTTCCTTGC GCAGCTGTC
2161 TCGACGTTGT CACTGAAGCG GGAAGGGACT GGCTGCTATT GGGCGAAGTG CCGGGGCAGG
2221 ATCTCCTGTC ATCTACCTT GCTCCTGCC AGAAAGTATC CATCATGGCT GATGCAATGC
2281 GCGGCTGCA TACGTTGAT CCGGCTACCT GCCCATTCGA CCACCAAGCG AAACATCGCA
2341 TCGAGCGAGC ACGTACTCG ATGGAAGCCG GTCTTGTGCA TCAGGATGAT CTGGACGAAG
2401 AGCATCAGGG GCTCGCGCCA GCCGAAGTGT TCGCCAGGCT CAAGGCGAGC ATGCCCGAGC
2461 GCGAGGATCT CGTCGTACC CATGGCGATG CTTGCTGCC GAATATCATG GTGAAAATG
2521 GCCGTTTTT TGGATTCATC GACTGTGGCC GGCTGGGTGT GCGGACCCG TATCAGGACA
2581 TACAGTTGGC TACCTGTGAT ATTGCTGAA AGCTTGGCGG CGAATGGGCT GACCGTTCC
2641 TCGTGTCTTA CGGTATCGCC GCTCCGATT CGCAGCGCAT CGCCTTCTAT CGCCTTCTG
2701 ACGAGTTCTT CTGAGCGGGA CTCTGGGGTT CGAAATGACC GACCAAGCGA CGCCCAACT
2761 GCCATCACGA GATTTGATT CCACCGCCCG CTCTATGAA AGGTTGGGCT TCGGAATCGT
2821 TTTCCGGGAC GCCGGCTGGA TGATCTCCA GCGCGGGGAT CTCATGCTGG AGTTCTTCG
2881 CCACCTAGG GGGAGGCTAA CTGAAACACG GAAGGAGACA ATACCGGAAG GAACCCGCGC
2941 TATGACGGCA ATAAAAAGAC AGAATAAAAC GCACGGTGTG GGGTCGTTTG TTCATAAACG
3001 CGGGGTTCCG TCCCAGGGCT GGCACCTGT CGATACCCCA CCGAGACCCC ATTGGGGCCA
3061 ATACGCCCGC GTTCTTCTT TTTCCCACC CCACCCCCA AGTTCGGGTG AAGGCCAGG
3121 GCTCGCAGC AACGTCGGG CGGCAGGCC TGCCATAGCC TCAGGTTACT CATATATACT
3181 TTAGATTGAT TAAAACTTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA
3241 TAATCTCATG ACCAAAATCC CTTAACGTGA GTTTTCGTT CACTGAGCGT CAGACCCCGT
3301 AGAAAAAGATC AAAGGATCTT CTGAGATCC TTTTTTCTG CGCGTAATCT GCTGCTTGA
3361 AACAAAAAAA CCACCGCTAC CAGCGTGGT TTGTTGCGG GATCAAGAGC TACCAACTCT
3421 TTTTCCGAAG GTAAGTGGCT TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTA
3481 GCCGTAGTTA GGCCACCACT TCAAGAAGT TGTAGACCCG CCTACATACC TCGCTCTGCT
3541 AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTGGACTC
3601 AAGACGATAG TTACCGGATA AGGCGAGCG GTCGGGCTGA ACGGGGGGTG CGTGACACA
3661 GCCCAGCTTG GAGCGAACGA CCTACACCGA ACTGAGATAC CTACAGCGTG AGTATGAGA
3721 AAGCGCCACG CTTCCCGAAG GGAGAAAGGC GGACAGGTAT CCGGTAAGCG GCAGGGTCGG
3781 AACAGGAGAG CGCACGAGGG AGCTTCCAGG GGGAAACGCC TGGTATCTTT ATAGTCTGT
3841 CGGGTTTCG CACCTCTGAC TTGAGCGTCG ATTTTGTGA TGCTCGTCAG GGGGGCGGAG
3901 CCTATGAAA AACGCCAGCA ACGCGCCTT TTTACGGTTC CTGGCCTTT GCTGGCCTT
3961 TGCTCACATG TTCTTCTG CGTTATCCCC TGATTCTGTG GATAACCGTA TTACCGCAT
4021 GCAT

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