

Table S1: Primers and Oligonucleotides used in this work	
Name	Sequence (5' - 3')
TLRvenus-1	ATCCTTAATTAAGCCGCCACCATGGTGAGCAAGGGCGAGGAGCTG
TLR6-1	CCATCTTCTAGAAAGACTGGAGTCTGGACGTAGCCTTCGGGCATG
TLR6-2	GACTCCAGTCTTTCTAGAAGATGGATCTTCTTCAAGGACGACGGC
TagRFP-2	ATTTACGCGTGCGATCGCTCAATTAAGTTTGTGCCCCAGTTTG
TLRtv-1	GTGAGCAAGGGCGAGGAGCTG
TLRtv2	GGTGGCGGCTTAATCAAGCTTATC
sgRosa-A	CACCGACTCCAGTCTTTCTAGAAGA
sgRosa-B	AAACTCTTCTAGAAAGACTGGAGTC
UAS-for	TCGACCGCAAGCTTGCATGCCTGCAGGT
UAS-rev	TCGACATGCGCTAGCGCTAGAGTCTCCG
Gal4-for	TCCTTAATTAATAATAATACGACTCACTATAGGGGCCACCATGAAGCTACTGTC TTCTATCGAAC
Gal4-rev	ACGACGATCGGCTACCTCCTCCGCTTCCCTCCTCCGCTTCCACCTCCT CCGTGCACCTTCCCTCTTTTTCTTAGGCGATACAGTCAACTGTCTTTGACC
Rad18-for	TCCTTAATTAATAATACGACTCACTATAGGGGCCACCATGGACTACAAGGATG ACGACGATAAACCCTCGACATCCACTTTGAAACAAG
Rad18-rev	CATTTACGCGTCTACCTTTTGTGAACAGAACTTCTGAGG
Rad18-for2	TCCTTAATTAATAATACGACTCACTATAGGGGCCACCATGGACTCCCTGGCCG AGTCT
Rad18-rev2	CATTTACGCGTTTAATTCCTATTACGCTTGTTTCTTGGT
RNF169-for2	TCCTTAATTAATAATACGACTCACTATAGGGGCCACCATGGACTACAAGGATG ACGACGATAAAAAGCTTCAGCAAGAGGAAGAAGACC
RNF169-rev	CATTTACGCGTCTACTTGGCCCCGGCCATGTTG
RNF169-for	TCCTTAATTAATAATACGACTCACTATAGGGGCCACCATGGCGGCTGCAGGTC CGAGTA
BRCA1-for	TCCTTAATTAATAATACGACTCACTATAGGGGCCACCATGGATTTATCTGCTCT TCGCGTTG
BRCA1-rev	CATTTACGCGTTCAGTAGTGGCTGTGGGGGATCT
BRCA1-rev2	ATCGCGATCGGCTACCTCCTCCTCCGCTTCCCTCCTCCTCCGCTTCCACCTCCT CCGTAGTGGCTGTGGGGGATCTGG
I53-for	TCCTTAATTAATAATACGACTCACTATAGGGGCCACCATGTTGATTTTCGTGAA AACCCTTAC
I53-rev	CATTTACGCGTTCACGAAGTCTCAACAGAGGATG
TetRsc4-for	ATCGATTAATTAATAATAATACGACTCACTATAGGGGCC
TetRsc4-rev	tacgaCGatcgGCTACCTCCTCCTCCGCTTCCCTCCTCCTCCGCTTCCACCTCCTCC GTGCACCTTCCCTTTTTCTTAGGAGAG
TetR-for	ATTAATAATACGACTCACTATAGGGGCCACCATGTCCAGACTGGACA
TetR-rev	TCATTTACGCGTTCACACGTGCTTTCTCTTTTTGGG
scTetR-for2	CTGAAATGTGAGTCTGGCTCTCACGTGGGAGGAGGTG
scTetR-rev2	CTGCAATCATTTACGCGTTCACACGTGCACCTTCCCTTTTTTC
5HA HR Rev	CGGGATTCTCCTCCACGTCACCGCA
hAAVS1 For	TCCAGGGGTCCGAGAGCTCAGCTAG
ST_puro_gt_fw	TCCCCTTTCCGATGTTGAG
ST_puro_gt_rv	GCGGTCCGGATCGACG
ST_neo_gt_fw	CTTACCATCCCTCCCTCGACT
ST_neo_gt_rv	GAACCTGCGTGCAATCCA
Venus TLR fw	CACCATGGTGAGCAAGGGCGAG
TagRFP1rev	GGTACAGCATCTCGGTGTTGG
Primer CAG2	TTCCGCTTCTGGCGTGTGACC
Primer Venus-rev	CGTTCTTCTGCTTGTCCGGCGG
Primer Venus-for- <i>illumina adapter</i>	<u>ACACTCTTCCCTACACGACGCTCTTCCGATCTTCAAGTCCGCCATGCCCGAA</u> G
Primer Venus-rev- <i>illumina</i>	<u>GACTGGAGTTCAGACGTGTGCTCTTCCGATCTCGTTCTTCTGCTTGTCCGGCGG</u>
Primer LMNA 5' outer fw	CACTCCTGGCACACTGAGATG

Primer LMNA 3' outer rev	GGTGCCCAGAGTTCTTCGAG
Primer LMNA 3' inner fw <i>illumina</i>	<u>ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTCCGAGCAGTCTCTGTCC</u>
Primer LMNA 3' inner rev <i>illumina</i>	<u>GACTGGAGTTCAGACGTGTGCTCTTCCGATCTACCGCCAAGCGATCATTGAG</u>
sgLMNA-A	<u>CACCGTGGGACGGGGTCTCCATGGC</u>
FunsgLMNA-B	<u>AAACGCCATGGAGACCCCGTCCCAC</u>
Primer hGABPA 5HA intern-F	CTCTTATTGGATACAGTGCAGC
Primer hGABPA 3' HR rev	AGCTATCTGCCAGTCTCATG
Primer hGABPA_intFw <i>illumina</i>	<u>ACACTCTTTCCCTACACGACGCTCTTCCGATCTAATTGCCAGCCAGTCACAG</u>
Primer hGABPA_intRev <i>illumina</i>	<u>GACTGGAGTTCAGACGTGTGCTCTTCCGATCTATGAACCTGCCTTCACACTGC</u>
Primer hCREB1 5' HDR-F	TGCCAAATCCAATGTCAGAGAG
Primer hCREB1-3HA intern-R	CAGGTGTTGGAACATTCACAG
Primer hCreb_intFw <i>illumina</i>	<u>ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCTTGTAGGGAAGCAGCTCG</u>
Primer hCreb_intRev <i>illumina</i>	<u>GACTGGAGTTCAGACGTGTGCTCTTCCGATCTCAGGTGTTGGAACATTCACAG</u>
Primer HR AAVS1-F	CTGCCGTCTCTCTCCTGA GT
Primer AAVS1-R	CCAGCTCCCCTGCTTCTTGGCCAC
Primer AAVS1 inner fw <i>illumina</i>	<u>ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGGTTAATGTGGCTCTGGTTCTG</u>
Primer AAVS1 inner rev <i>illumina</i>	<u>GACTGGAGTTCAGACGTGTGCTCTTCCGATCTCAATATCAGGAGACTAGGAAGGAGG</u>
sgAAVS1-A	<u>CACCGGGGGCCACTAGGGACAGGAT</u>
sgAAVS1-B	<u>AAACATCCTGTCCCTAGTGGCCCCCG</u>
sgLMNB1-A	<u>CACCGGGGGTTCGCAGTCGCCATGGC</u>
sgLMNB1-B	<u>AAACGCCATGGCGACTGCGACCCCC</u>