

Table S1

#	Protospacer name	Sequence
1.	5-IMC12dKO-s	/5Phos/AAGTTGTACTTCGCTCTGTGAATTTGG
2.	5-IMC12dKO-as	/5Phos/AAAACCAAATTCACAGAGCGAAGTACA
3.	3-IMC12dKO-s	/5Phos/AAGTTGCGTCGACTCCATGCCCCAGTG
4.	3-IMC12dKO-as	/5Phos/AAAACACTGGGGCATGGAGTCGACGCA
5.	5-IMC14dKO-s	/5Phos/AAGTTGtaccaatagtggacacgATGG
6.	5-IMC14dKO-as	/5Phos/AAAACCATcgtgtccactattggtaCA
7.	3-IMC14dKO-s	/5Phos/AAGTTGAGTCCGCAGTCTCGTGAATTG
8.	3-IMC14dKO-as	/5Phos/AAAACAATTCACGAGACTGCGGACTCA
9.	5-IMC15dKO-s	/5Phos/AAGTTGAGAGAATTTTCTAAATGG
10.	5-IMC15dKO-as	/5Phos/AAAACCATTTTAGAAAAATTTCTCTCA
11.	3-IMC15dKO-s	/5Phos/AAGTTGCACAGTGTGCCAGTCAACGG
12.	3-IMC15dKO-as	/5Phos/AAAACCGGTGACTGGCAACACTGTGCA

#	IMC Primer name	Sequence
1.	5' IMC7-F-B1	GGGGACAAGTTTGTACAAAAAAGCAGGCTGCGTCCAGTTCACAGTCCCAACAC
2.	5' IMC7-F-B4	GGGGACAAGTTTGTATAGAAAAGTTGGGTGGCACTGGCAGAACGGCGTCTG
3.	3' IMC7-F-B3	GGGGACAAGTTTGTATAATAAAGTTGcgATGGAGTTCAGTCTGACAACGTAC
4.	3' IMC7-R-B2	GGGGACCACTTTGTACAGAAAGCTGGGTACGCGATCGTGAATGGTCCGGAC
5.	5' IMC7ver-F	GAACGACCAGACATCCGATGTTCT
6.	3' IMC7ver-R	CGTGACACCAAGTCCAAGGGC
7.	5' U6_sequence-F	ctcgtagagaacaagcactcg
8.	5' IMC12-DHFR-F	cactcctttatttgggaaaccaccttgtcttttctCACGAAACCTTGCAATTCAAAC
9.	3' IMC12-DHFR-R	ctgggtccacactccccctctacggaaaagcggttcATCCTGCAAGTGCATAGAAGG
10.	5' IMC12ver-F	cagGTTTAAACCACCAACAATCCAACAACCTTCCG
11.	3' DHFR-CXR	ACTGCGAACAGCAGCAAGATCG
12.	5' DHFR-ver-F	CACACAGTCTCACCTCGCCT
13.	3' IMC12ver-R	cgtactacagcgtgttcacg
14.	IMC12dKO-int-ver-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTGCCAGCATGCTGGCGGTACCCAAC
15.	IMC12dKO-int-ver-R	GGGGACAAGTTTGTATAGAAAAGTTGGGTGGCACAACCGGTGAACAGAATAC
16.	IMC12-S249A-S250A-R	CTCGCTCACGCGAGAGAAAACCCGCGGTGCCGCGGAGAGAGCCCACTGCCGCCTC
17.	IMC12-S249E-S250E-R	CTCGCTCACGCGAGAGAAAACCCGCGGTGCCGCGGAGAGAGCCCACTGCCGCCTC
18.	5' IMC14-DHFR-F	cttgtgtttcgtgtggaccggaagaaatcCACGAAACCTTGCAATTCAAAC
19.	3' IMC14-DHFR-R	catacggcatctgtatttgaacatactgcctgcATCCTGCAAGTGCATAGAAGG
20.	5' IMC14ver-F	cagGTTTAAACTCGCATGCTGAGGAACCAACC
21.	3' IMC14ver-R	cgccgctatattaagccttgc
22.	IMC14dKO-int-ver-F	gtgactggggcgtgagcg
23.	IMC14dKO-int-ver-R	CGGGACATCACGGTACTTATACTC
24.	5' IMC15-DHFR-F	gaaaggacacgctttgacacaccggcgtcacagcCACGAAACCTTGCAATTCAAACC
25.	3' IMC15-DHFR-R	cgtttcctagacaatccgtctcctcaaggaggagcATCCTGCAAGTGCATAGAAGG
26.	5' IMC15ver-F	GTGTACTGGTGTTCGAGGCTATG
27.	3' IMC15ver-R	CAAACCAATGATGCGGTCCCTG
28.	IMC15dKO-int-ver-F	cagaactgcaagagacaccg
29.	IMC15dKO-int-ver-R	ctgcagtgcaagaattccgc