

## SUPPLEMENTARY DATA

Supplementary Table 1. Primers used in this study.

Name		Sequence 5' -- 3'	Construct
M1	(-)	CAGT GAA TTC AAG ATG TCC TTC GAG G	mM8-myc
K1104	(-)	ACTG CTCGAG TAACTTGATGTATTAGC	mM8-myc
D40	(-)	ACTGGCGCGCATCACTGTCACTGTAGG	Δ41-48, Δ41-57
F49	(+)	CAGTGGCGGCTTTAAAAACGAGAATGTC	Δ41-48
F49	(-)	ACTGGCGCGCATTTCCTGAATAAAATTCACC	Δ41-57, Δ49-57
F58	(+)	CAGTGGCGGCACCAGAGACTCCAAGGCC	Δ41-57
M1 (mM2)	(+)	CAGTGAATTCAAGATGGAGTCCTTGGACCGG	(1-57) (1-76)/M2/M8
1-76 M2/M8	(+)	TGTGTGTACTTCGTGGAAGACTCCAAGGCCATGG	1-76M2/M8
1-76 M2/M8	(-)	CATGGCCTTGGAGTCTTCCACGAAAGTACACACTCC	1-76M2/M8
40-50mM2	(-)	GATGTTCTCGGGAATCCATGAGCTAAGGTTACTGTCACTGTAGGACACG	40-50 M2/M8
40-50mM2	(+)	AACCTTAGCTCATGGATTCCCAGAAATCAAAAAACGAGAATGTGTC	40-50 M2/M8
50-60mM2	(+)	AAGAAGAAGGAGTGTGTGTACTTCGTGGAAGACTCCAAGGCCATG G	50-60 M2/M8
50-60mM2	(-)	TCCACGAAGTACACACTCTTCTTCTTAAAAATTTGCCTGAATAAAA	50-60 M2/M8
5859VE	(+)	CGAGAATGTGTCTTCTTTGTGCGAAGACTCCAAGGCC	TR5859VE
5859VE	(-)	GGCCTTGGAGTCTTCGACAAAAGAAGACACATTCTCG	TR5859VE
E4	(-)	ACTGGCGCGCCTCGAAGGACATCTTGC	Δ5-39
M1 (hM8)	(+)	CAGT GAT ATCATGTCTTTCGGGCAGC	hM8-myc
K1104 (hM8)	(-)	ACTGCTCGAGTAATTTGATTTTATTAGC	hM8-myc
1M (hM8b)	(+)	CAGTGATATCATGAAATCCTTCCTTCCTGTCCACACCATCGTGCTTATCA GGGAGAATGTGTGC AAGTGTGGC	hM8b
D40	(+)	CAGTGGCGGCGAATTTGGTGAATTTTATTTCAGG	Δ5-39, Δ30-39
M1 (mV1)	(+)	CAGT GAATTCAAGATGGAGAAATGGGCTAGC	1-40 V1/M8
1-40 V1/M8	(+)	CCAGCCAAGCCCCACATCTTGGTGAATTTTATTTCAGG	1-40 V1/M8
1-40 V1/M8	(-)	CCTGAATAAAAATTCACCAAGATGTGGGGCTTGGCTGG	1-40 V1/M8
M10HA	(-)	AGCGTAGTCTGGGACGTCGTATGGGTACATGCTGAGCCTGGC	10-20 HA
S20HA	(+)	TACCCATACGACGTCACGACTACGCTAGCACCCCGACCC	10-20 HA
R20HA	(-)	AGCGTAGTCTGGGACGTCGTATGGGTACCTGCCCATAGTACC	20-30 HA
R30HA	(+)	TACCCATACGACGTCACGACTACGCTCGGAGCACAGACGTGTCC	20-30 HA
L30HA	(-)	AGCGTAGTCTGGGACGTCGTATGGGTACAGAGATACACTGGAGTAC	30-40 HA
D40HA	(+)	TACCCATACGACGTCACGACTACGCTGATTTGGTGAATTTTATTTCAGG	30-40 HA
19 GRYPYD	(-)	GTCGTATGGGTACCTGCCCATAGTACCATT	19-25HA
26 YRYPYD	(+)	AGGTACCCATACGACTACTCCAGTGTATCTCGG	19-25HA
24 LVPDYA	(-)	AGCGTAGTCTGGGACCAGGGTCCGGGTGCTGCC 3'	24-30 HA
30 LVPDYA	(+)	GTCCCAGACTACGCTCGGAGCACAGACGTGTCC	24-30 HA
22 YDVPD	(-)	GTCTGGGACGTCGTACCCGGGTGCTGCCCAT	22-28 HA
28 YDVPD	(+)	TACGACGTCACGACTATCTCGGAGCACAGACG	22-28 HA
S26VS27P	(+)	CGGACCCTGTACGTCCCCGTATCTCGGAGC	SS2627VP
S26VS27P	(-)	GCTCCGAGATACGGGGAGTACAGGGTCCG	SS2627VP
S26V	(+)	CGGACCCTGTACGTACGTATCTCGGAGC	S26V
S26V	(-)	GCTCCGAGATACACTGACGTACAGGGTCCG	S26V
S26D	(+)	CGGACCCTGTACGTACGTATCTCGGAGC	S26D
S26D	(-)	GCTCCGAGATACACTGTCGTACAGGGTCCG	S26D
S26P	(+)	CGGACCCTGTACCCAGTGTATCTCGGAGC	S26P
S26P	(-)	GCTCCGAGATACACTGGGGTACAGGGTCCG	S26P
S27D	(+)	CGGACCCTGTACTCCGATGTATCTCGGAGC	S27D
S27D	(-)	GCTCCGAGATACATCGGAGTACAGGGTCCG	S27D
S27A	(+)	ACCCTGTACTCCGCTGTATCTCGGAGC	S27A
S27A	(-)	GCTCCGAGATACAGCGGAGTACAGGGT	S27A
27P	(+)	CGGACCCTGTACTCCCCGTATCTCGGAGC	27P
27P	(-)	GCTCCGAGATACGGGGAGTACAGGGTCCG	27P
1cM8	(+)	CAGTGATATCATGAGGCACCAAGAAATGG	1-30 cM8/mM8
40cM8/mM8	(-)	CCTGAATAAAAATTCACCAAAATCGCTATCATTGCACG	1-30 cM8/mM8
40cM8/mM8	(+)	CGTGCAATGATAGCGATTTGGTGAATTTTATTTCAG G	1-30 cM8/mM8
57M2/40M8	(+)	GCAGTGAGAAGCAAGAAAACCTTGGTGAATTTTATTTCAGG	1-57 M2/M8
57M2/40M8	(-)	CCTGAATAAAAATTCACCAAGTTCCTTCTCTCACTGC	1-57 M2/M8
L24	(+)	CAGTGGCGGCTACTCCAGTGTATCTCGG	Δ12-24
R11	(-)	ACTGGCGGCCCCTCATGCTGAGCCTGGC	Δ12-24
S29	(-)	ACTGGCGGCGAGATACACTGGAGTACAGG	Δ30-39