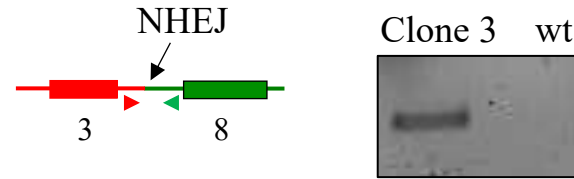


A Reciprocal translocation

ATF1(ex3)-EWSR1(ex8)



	<i>ATF1</i>	<i>EWSR1</i>
wt	CTCTCCATTGGCC CCATA	CACATCTTTAGGGCAT GGC
clone 3	CTCTCCATTGGCC CCATA	CACATCTTTAGGGCAT GGC

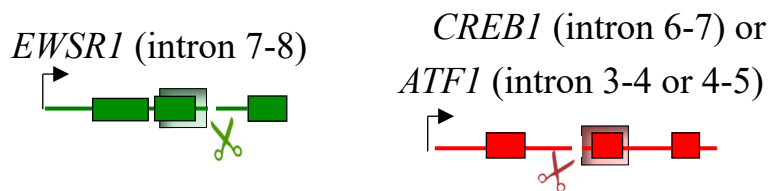
CREB1(ex6)-EWSR1(ex8)

	<i>CREB1</i>	<i>EWSR1</i>
wt	GTTGAATATGGGTTT CCTGAG	CACATCTTTAGGGCAT GGCAT
clone 35	GTTGAATATGGGTTT CCTGAG	-16bp GGCAT
clone 84	GTTGAATATGGGTTT CCT -3bp	+2bp (AA) -9bp AGGGCAT GGCAT

ATF1(ex4)-EWSR1(ex8)

	<i>ATF1</i>	<i>EWSR1</i>
wt	AGTAGTCTGCAGTTA CCAAGT	CACATCTTTAGGGCAT GG
clone 44	AGTAGTCTGCAGTTA CCA -3bp	-2bp CATCTTTAGGGCAT GG
clone 47	AGTAGTCTGCAGTTA CCAAG -1bp	-3bp ATCTTTAGGGCAT GG

B Unrearranged alleles



EWSR1 (intron 7-8, chr22:29,287,135-29,288,605)

wt	GTTTGCTTTTGGGAATCCAGGACACATCTTTAGGGCATGGCATTCCA	
clone 35	TCGAAC ATCTTTAGGGCATGGCATTCCA	-141 bp
clone 84	GTTTGCTTTTGGGAATCCAGGA ACATCTTTAGGGCATGGCATTCCA	-1 bp

CREB1 (intron 6-7, chr2:207,575,455-207,577,504)

wt	ATATGGGTTTCTTGAGGAGCAAGTTACTTGAATATATTAGA	
clone 35	ATATGGGTTTCTTGAG CAAGTTACTTGAATATATTAGA	-3 bp
clone 84	TACAATG AGCAAGTTACTTGAATATATTAGA	-337 bp

EWSR1 (intron 7-8, chr22:29,287,135-29,288,605)

wt	GTTTGCTTTTGGGAATCCAGGACACATCTTTAGGGCATGGCATTCCA	
clone 3	GTTTGCTTTTGGGAATCCAGGA ACATCTTTAGGGCATGGCATTCCA	-1 bp

ATF1 (intron 3-4, chr12:50,796,010-50,809,455)

wt	AACCTCTCCATTGGCCATACGCAGCACAACCTTATCCGTGTTCCCAAGTACTCAT	
clone 3	AACCTCTCCATT AGCACAACCTTATCCGTGTTCCCAAGTACTCAT	-11 bp

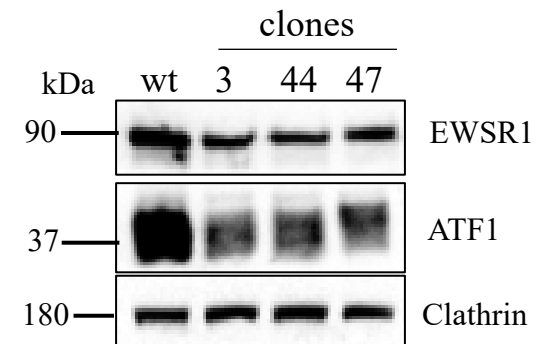
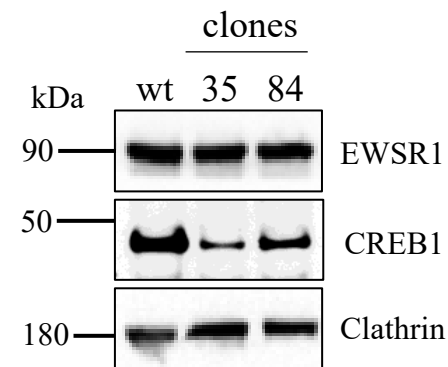
EWSR1 (intron 7-8, chr22:29,287,135-29,288,605)

wt	GCTTTTGGGAATCCAGGACACATCTTTAGGGCATGGCATTCCAGC	
clone 44	GCTTTTGGGAATCCAGGA ACATCTTTAGGGCATGGCATTCCAGC	-1 bp
clone 47	AGCCAC ATCTTTAGGGCATGGCATTCCAGC	-76 bp

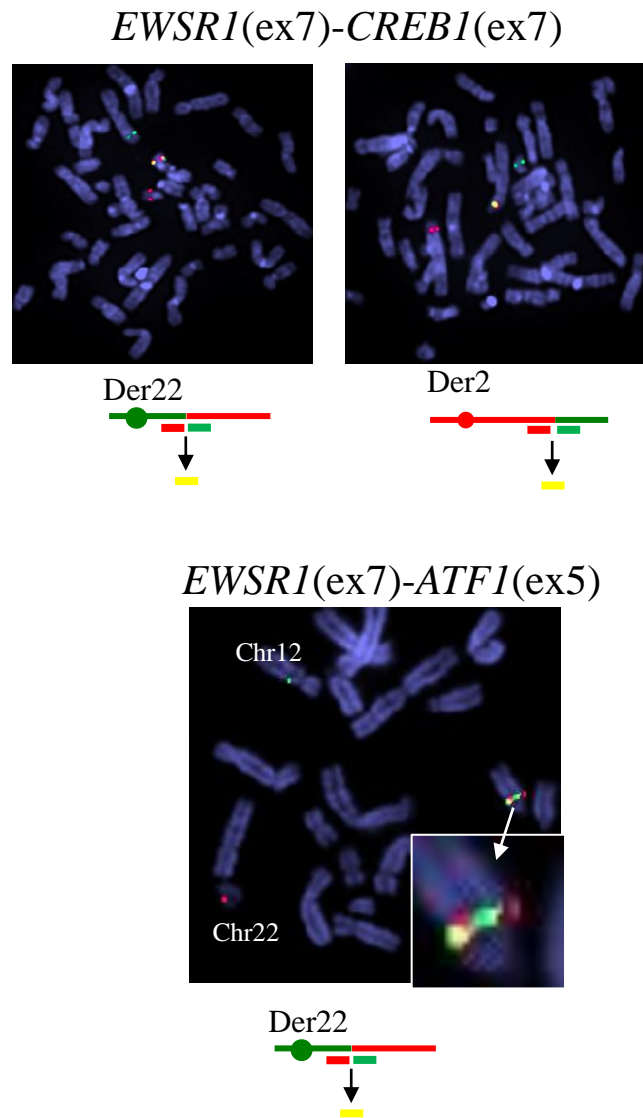
ATF1 (intron 4-5, chr12:50,809,590-50,814,009)

wt	GTAGTCTGCAGTTACCAAGTAGAAGTGCATTCATACCTGTTTTAGTAAATAGTGT	
clone 44	GTAGTCTGCAGTTACCAAGTAGAAGTGCATTCATACCTGTTTTAGTAAATAGTGT	+1 bp
clone 47	GTAGTCTGCAGTTACCAAGTAGAAGTGCATTCATACCTGTTTTAGTAAATAGTGT	

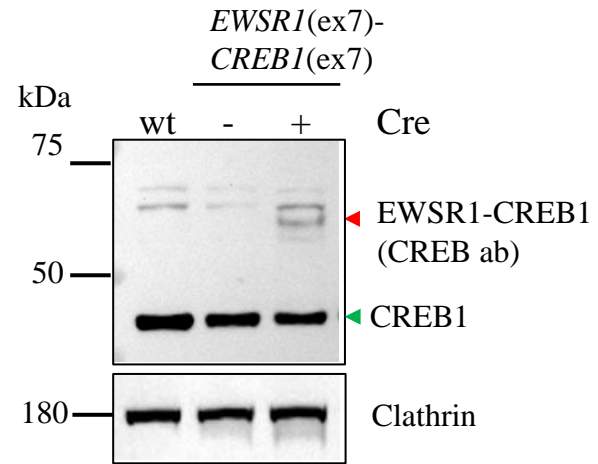
C



D



E



F

hES

