

Purpose	Name	Sequence
Amplify the promoter of TgPRL gene	prl.pr.F1	GCGAATTGGGTACCGGGCCCTTTAGTGACGCCAGAAA CGTAAG
	prl.pr.R1	TACGGGTACATCTTTCTAGCGAAAAAGTGAG
Amplify the CDS of TgPRL gene with an HA tag in the N-terminal	prl.cds.F1	AAAGATGTACCCGTACGACGTCCCGGACTACGCTAAC GAAGCGTCGTCCTGC
	prl.cds.R1	TttatctagacttaagTCACATGATTGCGCATCTACCTCCG
Generate pSag1-Cas9-U6-sgPRL by using Q5 mutagenesis	prl.ko.sgRNA.F1	gtgtagactgGTTTTAGAGCTAGAAATAGC
	prl.ko.sgRNA.R1	tgctccctcAACTTGACATCCCCATTTAC
Amplify the DHFR selection cassette from the plasmid pJET-DHFR	prl.ko.hr.dhfr.F1	GTTGGGCCACAGCCCGACGACCAGCCACTCGGAACT GACCAGCGACTCACTATAGGGAGAGCGGC
	prl.ko.hr.dhfr.R1	CGCTCCTCTTCTCCTCTGTCTTCTTCTTCGTTTCCTCCG CGGCAAGAACATCGATTTTCCATGGCAG
Test Δ prl shown in Figure 2	P1.F	TTTTGACGCGTCTCTGTAGGTA
	P1.R	atgtggcatttcacacagtctc
	P2.F	gaggagagacggaaagtgctta
	P2.R	AATCTGGCTGTCTAAAGCCTTG
Generate pSag1-Cas9-U6-sgKU80 by using Q5 mutagenesis	sgKU80.F1	ctcatattccGTTTTAGAGCTAGAAATAGC
	sgKU80.R1	aaaggtgtacAACTTGACATCCCCATTTAC
Amplify the HA-PRL expression cassette with short homology to the 5' UTR of ku80 gene	PRL.ku80.EE.HR.F2	GTCCCCGGTTTCGCCTCAGCACACACACACATGACGTA CATCGcgcggctatttagttaagggagc
	PRL.ku80.EE.HR.R1	GTAATGTCCGGAATAGTTCCCATCAGAAACAATGGAGCT ATCCCAAAGCTGGAGCTCGTACC

<p>Artificially synthesized fragment for generation of C339S mutant</p>	<p>C339S-synthesis-DNA</p>	<p>GTGTAGACTGCGGCCGCGCGGAGGAAACGAAGAGA AGACAGAGGAGAAGAGGAGCGAGAAGGCTGGGGCCG AGCGCGAGTGCGAGAGGAAGACGCAGCGACCTCGAT TTGACGGCGACGGTTCTTCTCTCAGCCCGCGAAGCAA CGCGTCCC GCGGCAGCGCGTGCAGCACACGGAGCTG CGAAAGCCACGAGAAGGTTGGCCGCACGTTGAGTGG AGACTCGACGGGCAGAGACGGCGTCTGTTCTGTCTCT TCTGCTCGCCAGCCTTCTCTCAGGAGAAAAAGCGCCG CTGAGGAAGTGGGACGCGAGGTGAAGGTGCACGGCA AGGCTTTAGACAGCCAGATTGAACTTGTGCGGACGAA GAACAGGGGCAAGAGCGAGGTGACCCGACTGGGTCG CGGGGCGGGGAGTGATGCGCGGTGTCAGTGTGCGCC TCTCGGGACTGCGCGTCACGTTCTTCCGGGCGCCAA CCGAGTCAAAGGCGCCAGAGCGCGAAGCCTCTGACG AAGCTCAGTTCGTCGTCCTCCAGCCACAACAAGACAA CGATGGTGCCGACTGTGATGAACACGCCGACCCGCAT CGAGGCGGGGCGTCAGAAGTTTCTGATTTTCGACGCG CCTAGCCAGGAGAATCTTCCC GCGTACATCGAGGAAA TGC GCGCCTACGAGGTCACAGACTTGGTGC GAACCTG CGAGCGGACCTACGACGACAAGACCGTGCTGGCTTCC GGCATCCGCCCCACGAACTGATCTTCCCGATGGAG AGGCGCCTCCAGACGATGTCATCGACGAGTGGCTCAC GCTCTGCAACGCCGTCTCGCAGCAGAGGGGGCGCAAT CGCGATTCACAGCGTCGCTGGTTTAGGTGCGGCCCCG GTCCTCGTCGCCATCGCCCTCATCGAAAAGGGCATGG ACCCCATGGATGCCATCAT</p>
<p>Artificially synthesized fragment for generation of C401A mutant</p>	<p>C401A-synthesis-DNA</p>	<p>GGCATGGACCCCATGGATGCCATCATGTTCAATTCGAG AAAGAAGAAAGGGCGCCATCAACCGA</p>