

List of designed primes for gene knock-out in yeast

Primer name	Primer sequence (5'-3')	description
BSC2-F	ATTGTCTTTTTTCTTCCTTCCTGCCAGGCATCTGCATCCATTATTGCCTT TAGTTACACACATACGATTTAGGTGACAC	Upstream homology attached to forward NAT primer, gene knock out
BSC2-R	TTCTGTAGCAATAAGTGTTCTTAGCAGTGGCGTTGCGTTGCCTTGACCTT GATTATCAATAATACGACTCACTATAGGGAG	Downstream homology attached to reverse NAT primer, gene knock out
BSC2-Con	AAGCCAGGAAGTTAGCGCCGGG	Confirmational analysis for gene replacement
OLA1-F	TAGCTTTTTGTGTTACTTCTAGTATCCGTAAAAACAATCAAATAAATAGC ACTGTAAAACCACATACGATTTAGGTGACAC	Upstream homology attached to forward NAT primer, gene knock out
OLA1-R	ATGATGATATATAGTAGGGAACATAACCAATAAAGAAAAGTCAACTT TAGTGCACGAAAAATACGACTCACTATAGGGAG	Downstream homology attached to reverse NAT primer, gene knock out
OLA1-Con	GGCAGAATGCAGTTGTTGCGTG	Confirmational analysis for gene replacement
YNL040W-F	GTGACGCATATCGACGAAAGCACACAACAGCGTCAAAAATTGATTA AGGTAAGTTATCCACATACGATTTAGGTGACAC	Upstream homology attached to forward NAT primer, gene knock out
YNL040W-R	TCACGATAAATACCTACCATTATGTATACAACAAATCTGCGTATACAAAT GGCACATTTCAATACGACTCACTATAGGGAG	Downstream homology attached to reverse NAT primer, gene knock out
YNL040W-Con	AGGGTAGTAACGTACGTGGACGAA	Confirmational analysis for gene replacement
Nat-Con	TCCAGTGCCTCGATGGCCTCGGCG	Confirmational analysis for gene replacement
PGK1-F	CAGACCATTCTTGCCATCT	house keeping gene, qRT-PCR analysis
PGK1-R	CGAAGATGGAGTCACCGATT	house keeping gene, qRT-PCR analysis
LacZ-F	TTGAAAATGGTCTGCTGCTG	Reporter gene, qRT-PCR analysis
LacZ-R	TATTGGCTTCATCCACCACA	Reporter gene, qRT-PCR analysis
Ploy T	TTTTTTTTTTTTTTTTTT	Template for Reverse transcriptase