

ACGT Universal Primer List

All of the standardized primers listed below are free to use for all Sanger sequencing services. When requesting the use of a universal primer, please use either the dropdown menu on the online order form under Primer Library, or type in the shortened name of the primer. The order form does not accept spaces or special characters other than (-) and (_), and our system has a character limit of 23 (template and primer name combined).

Reminder: If an order lists one of our universal primers, that primer will be added to the reaction. If the primer has already been added by the customer, that information must be stated in the comments section of the order form.

Full Primer Name	Shortened Name for Use in the Online Order Form	Primer Sequence (5' → 3')
3' AD	3AD	AGATGGTGCACGATGCACAG
3 AOX1	3AOX1	GCAAATGGCATTCTGACATCC
5' AD	5AD	TTCGATGATGAAGATACCCC
5 AOX1	5AOX1	GACTGGTTCCAATTGACAAGC
BGH Reverse	BGHR	TAGAAGGCACAGTCGAGG
BK REVERSE	BKREV	ACAGGAAACAGCTATGACCTTG
CMV Forward	CMVF	CGCAAATGGGCGGTAGGCGTG
EF-1 α Forward	EF-1 α For	TCAAGCCTCAGACAGTGGTTC
GEX 3'	GEX3	CCGGGAGCTGCATGTGTCAGAGG
GEX 3'B	GEX3B	CAAGCTGTGACCGTCTCC
GEX 5'	GEX5	GGGCTGGCAAGCCACGTTTGGTG
GL Primer 1	GLPrimer1	TGTATCTTATGGTACTGTAAGTG
GL Primer 2	GLPrimer2	CTTTATGTTTTTGGCGTCTTCCA
KS	KS	TCGAGGTCGACGGTATC
M13F (-20)	M13F	GTAAAACGACGGCCAGT
M13F (-40)	M13F-40	GTTTTCCAGTCACGAC
M13R	M13R	GGAAACAGCTATGACCATG
myc-HIS Reverse	myc-HISRev	ATGACCGGTATGCATATTCAG
pBAD Forward	pBADFor	ATGCCATAGCATTTTTATCC
pBAD Reverse	pBADRev	GATTTAATCTGTATCAGG
pET Upstream Primer	pETUpstream	ATGCGTCCGGCGTAGA
pFastBacForward	pFastBacFor	GGATTATTCATACCGTCCCA
pFastBac Reverse	pFastBacRev	CAAATGTGGTATGGCTGATT
pREP Forward	pREPFfor	GCTCGATACAATAAACGCC
pRSET Reverse	pRSETRev	TAGTTATTGCTCAGCGGTGG
pTrcHis Forward	pTrcHisFor	GAGGTATATATTAATGTATCG
pTrcHis Reverse	pTrcHisRev	GATTTAATCTGTATCAGG
pTRE 3'	pTRE3	CCACACCTCCCCCTGAAC
pTRE 5'	pTRE5	CGCCTGGAGACGCCATCC
QE Promoter	QEPromoter	CCGAAAAGTGCCACCTG
QE Reverse	QERreverse	GTTCTGAGGTCATTACTGG
RV Primer 3	RVPrimer3	CTAGCAAAATAGGCTGTCCC

Full Primer Name	Shortened Name for Use in the Online Order Form	Primer Sequence (5' → 3')
RV Primer 4	RVPrimer4	GACGATAGTCATGCCCCGCG
SK	SK	CTAGGTGATCAAGATCTCGC
SP6	SP6	GATTTAGGTGACACTATAG
SP6 Promoter	SP6Promoter	TATTTAGGTGACACTATAG
T3	T3	AATTAACCCTCACTAAAGGG
T7	T7	TAATACGACTCACTATAGGG
T7 Reverse	T7Rev	TAGTTATTGCTCAGCGGTGG
T7 Term	T7Term	GCTAGTTATTGCTCAGCGG
U19	U19	GTTTTCCAGTCACGACGT
21TA	21TA	TTTTTTTTTTTTTTTTTTT
21TC	21TC	TTTTTTTTTTTTTTTTTTTC
21TG	21TG	TTTTTTTTTTTTTTTTTTTG
1012F	1012F	GCTGACAGACTAACAGAC
1012R	1012R	GCAAACAACAGATGGCTGGC
XL39	XL39	ATT AGG ACA AGG CTG GTG GG
V1.5	V15	GGACTTTCCAAAATGTCG
3' DNA-BD	3DNA-BD	TAAGAGTCACTTTAAAATTTGTAT
pTRE2-3'	pTRE2-3	CATTCTAAACAACACCCTG
T7EEV	T7EEV	AAGGCTAGAGTACTTAATACGA
ACYCDuetUP1	ACYCDuetUP1	GGATCTCGACGCTCTCCCT
DuetDOWN1	DuetDOWN1	GATTATGCGGCCGTGTACAA
DuetUP2	DuetUP2	TTGTACACGGCCGCATAATC
EGFP-C	EGFP-C	CATGGTCCTGCTGGAGTTCGTG
EGFP-N	EGFP-N	CGTCGCCGTCCAGCTCGACCAG
LKO.15'	LKO15	GACTATCATATGCTTACCGT
pGEX 3	pGEX3	GAGCTGCATGTGTCAGAGG
pGEX 5	pGEX5	GGCAAGCCACGTTTGGTG
mCherry-F	mCherry-F	CCCCGTAATGCAGAAGAAGA
mCherry-R	mCherry-R	TTGGTCACCTTCAGCTTGG
pCMV forward	pCMVF	GAGCTCGTTTAGTGAACCGTC