



inqaba biotec™

Africa's Genomics Company



INQABA BIOTEC SEQUENCING INFORMATION FORM

Dear Valued Inqaba Customer,

Thank you for choosing Inqaba Biotec for all your sequencing requirements. The purpose of this file is to assist you in choosing your customised service according to your sequencing requirements. Please do not hesitate to contact us via e-mail (info@inqababiotec.co.za) should you have any further questions, would like to request a quotation or would like to share your comments.

Our Sanger Sequencing Department provides the following services to suite your individual needs:

- Simple Lane – A sequence reaction is submitted. All sequencing reactions should be submitted protected from light.
- Basic Service – A purified PCR product/high quality plasmid DNA and primers are provided to Inqaba at the correct concentrations. Inqaba performs sequencing reaction, purification and injection on the ABI 3500XL Genetic Analyzer.
- Full Service – Unpurified PCR product/plasmid/clone/plate is submitted to Inqaba. Inqaba performs purification and quantification of the template, sequencing reaction, purification and injection on the ABI 3500XL Genetic Analyzer.

All sequences are run on the ABI 3500XL Genetic Analyzer, POP7™ (ThermoScientific).

Please take note that in order to streamline all processes in the laboratory we request that you provide samples, PCR products, primers and plasmids with the following parameters:

- Primers – minimum 10µl with a concentration of 10µM + **1µl for every reaction required.**
- PCR products – minimum 15µl
- Plasmids – minimum 12µl
- gDNA – minimum of 15µl with a minimum concentration of 30ng/µl.

Additional core services are also available at Inqaba in order to better provide support for all your service requests:

- Sample collection via courier
- gDNA extraction – plates with bacterial, fungal and yeast cultures are accepted.
- Primer synthesis – please submit primer sequences in 5' to 3' orientation.
- PCR amplification from gDNA – please provide samples and primers with the correct concentrations.
- Sequence editing
- Sequence analysis

The following primers are available at Inqaba for PCR and sequencing reactions. It will not be necessary to send these primers along with your samples.

Primer Name	Primer Sequence (5'-3')	Primer Name	Primer Sequence (5'-3')
BGH-rev	CTAGAAGGCACAGTCGAGGC	pJET1.2 F	CGACTCACTATAGGGAGAGCGGC
CMV-for	CGCAAATGGGCGGTAGGCGTG	pJET1.2 R	GAAGAACATCGATTTTCCATGGCAG
M13F(-20)	GTAAAACGACGGCCAGT	pQEPromotor	CCCgAAAAGTGCCACCTG
M13R(-26)	CAGGAAACAGCTATGAC	pQERreverse	GTTCTGAGGTCATTACTGG
pBAD Forward	ATGCCATAGCATTATATCC	pTriplEx 3'	ACTCACTATAGGGCGAATTG
pBAD Reverse	GATTTAATCTGTATCAGG	pTriplEx 5'	CTCGGGAAGCGCGCCATTGTGTGGT
pFastBacF	GGATTATTCATACCGTCCCA	SP6	ATTTAGGTGACTATAG
pFastBacR	CAAATGTGGTATGGCTGATT	S-Tag primer	GAACGCCAGCACATGGACA
pGEX3	GGAGCTGCATGTGTGAGAGG	T3	ATTAACCCTCACTAAAG
pGEX5	GGCAAGCCACGTTTGGTG	T7	AATACGACTCACTATAG
27F	AGAGTTTGATCMTGGCTCAG	T7 Promoter	TAATACGACTCACTATAGGG
907R	CCGTCAATTCMTTTRAGTTT	T7 terminator	GCTAGTTATTGCTCAGCGG
1492R	TACGGYTACCTTGTACGACTT	LCO 1490	GGTCAACAAATCATAAAGATATTGG
ITS-1	TCCGTAGGTGAACCTGCGG	HCO 2198	TAAACTTCAGGGTGACCAAAAAATCA
ITS-4	TCCTCCGCTTATTGATATGC		

Please note that samples will be discarded 2 months after the order has been completed; please make alternative arrangements should you wish to retain the samples.