M13 Vectors

Description: M13 is a filamentous bacteriophage that infects male *E.coli* strains. The DNA molecule is a single stranded circle, which is 7250 bases in length. Double stranded DNA arises as an intermediate form during DNA replication.

Bangalore Genei supplies single stranded DNA & double stranded DNA of M13 mp18 and mp19.

Store at: -20°C.

Ordering Information:

Product	Size	Cat #
M13 mp18 (Double stranded)	50 µg	105852

Ordering Information:

Product	Size	Cat #
M13 mp18 (Single stranded)	50 µg	105854
M13 mp19 (Single stranded)	50 µg	105860

pACYC184 DNA

Ordering Information:

Product	Size	Cat #
pACYC 184	10 µg	105866

Description: Plasmid DNA pACYC184 is a small, low copy number *E.coli* cloning vector that is 4,244 base pairs in length. It carries the chloramphenicol resistance gene (Cm) from Tn9 and the Tetracyline - resistance gene (Tc) from pSC101. It can co-exist with vectors like pBR322 and pUC19 that carry the Col E1 origin. It can be amplified with Spectinomycin (50 µg/ml).

Store at: -20°C.

Expression Vectors

Description: **pARC035, pARC036** vectors carry an origin of replication which enables these plasmids to replicate in any *E.coli* host. These are high copy number plasmids (approximately 100 copies/chromosome). These also carry F1 origin of replication to enable one to make single stranded DNA on superinfection with a helper phage (such as R408 M13 Ko7) in male specific (e.g. *E.coli* JM 101 F factor bearing) host. This enables one to sequence the insert without resorting to M13 subcloning protocols.

Ordering Information:

Product	Size	Cat #
pARC 035	10 µg	105381
pARC 036	10 µg	105382

Both vectors have T7 Phi 10 promoters for *in vitro* RNA transcriptional studies. This promoter can also be used for *in vivo* hyperexpression using appropriate host which has an inducible T7 RNA polymerase (such as JM 107 (DE 3)).

pARC 035 is a 4102 bp vector having an ampicillin resistance marker whereas pARC 036 is a 4586 bp vector having kanamycin resistance marker. They have F1 origin of replication in opposite orientations.

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