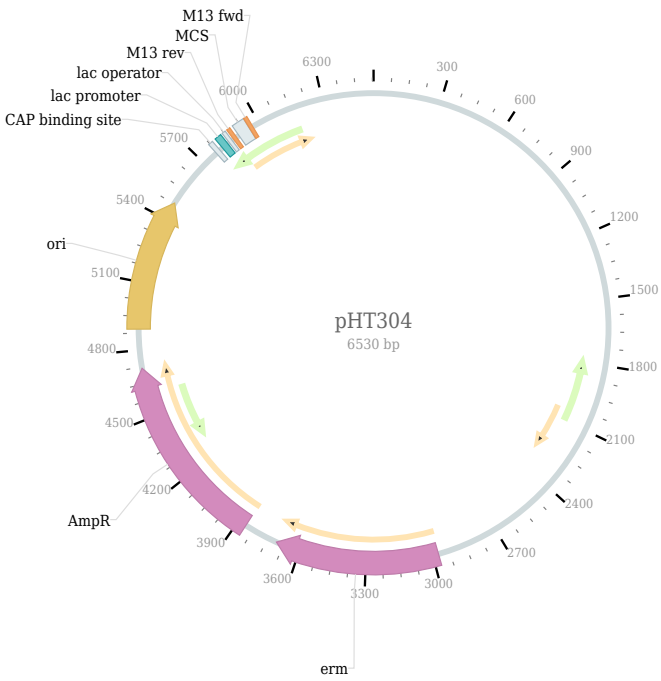
# pHT304

| | |
|---|---|
| **Vector ID** | V001727 |
| **Antibiotic Resistance** | Ampicillin, Erythromycin |
| **Length** | 6530 bp |
| **Vector Type** | Bacillus subtilis expression vectors |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Copy Number** | High copy number |
| **Cloning Method** | Enzyme digestion and ligation |
| **Growth Strain(s)** | stbl3 |
| **Growth Temperature** | 37℃ |
| **Comment** | pHT304 is a shuttle vector designed for use in Bacillus subtilis and Escherichia coli. It has a size of 6530 bp and contains a lac promoter system, which can be induced by IPTG. This vector features an erythromycin resistance marker (ERM) for selection in Gram-positive hosts like Bacillusand an ampicillin resistance gene (AmpR) for selection in E. coli. It is based on a ColE1 origin for replication in E. coliand is classified as a wide host series plasmid for Bacillus subtilis. pHT304 is noted for its stability in Bacillusspecies and has been widely used as a backbone for constructing specialized vectors, such as promoter-trapping systems for studying gene expression during bacterial infection. |

## Vector Map



## Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.